

ESL-TA-84-02



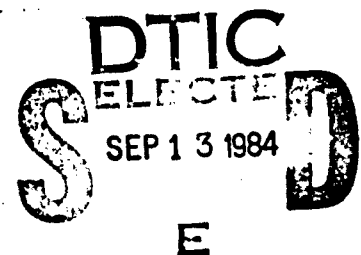
**Variability of Major Organic  
Components in Aircraft Fuels  
Volume III: SAMPLE DATA PACKAGE FOR  
THE REFERENCE JP-4 FUEL (Volume III of III)**

**B.M. HUGHES, G.G. HESS, K. SIMON,  
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MONSANTO CO, DAYTON LAB  
DAYTON, OH 45407**

**27 JUNE 1984**

**INTERIM REPORT  
DECEMBER 1982 - NOVEMBER 1983**

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19. ABSTRACT (Continue on reverse if necessary and identify by block number)									
<p>→ This report summarizes qualitative and quantitative data on the chemical variability of approximately 300 features (chemical components or mixtures of components) with concentrations greater than 0.1 mg/ml in Air Force distillate fuels obtained from over 50 sources. These data were obtained to better understand the environmental effects of possible fuel spills and to serve as a data baseline in photochemical smog and soot formation studies.</p> <p>→ Fifty-four petroleum-derived JP-4 fuels, one shale-derived JP-4 fuel, and one petroleum-derived JP-5 fuel were analyzed. The variability of the absolute concentrations in mg/ml was assessed for each feature in the capillary GC/FID (gas chromatography/flame ionization detection) analysis of the 54 fuels. Data base management programs developed and used in this assessment included the calculation of averages, ranges, standard deviations, and percent relative standard deviations of the 300 chromatographic feature concentrations in duplicate analyses of almost all of the fuels. The variability of the data acquisition and data analysis phases of the study was also assessed by calculating the</p>									
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11. Cont'd  
Fuels, Volume III: Sample Data Package for the Reference JP-4 Fuel (Volume III of III)

19. Cont'd

averages, ranges, standard deviations, and percent relative standard deviations for the 300 feature concentrations of one JP-4 fuel, which was used as the Reference Fuel and analyzed 14 times.

This report is presented in three volumes. Volume I contains the technical discussion, Volume II consists of illustrations, and Volume III contains the sample data package for JP-4 reference fuel.

PREFACE.

This research was conducted by Monsanto Company, Dayton Laboratory, 1515 Nicholas Road, Dayton, Ohio 45407 under contract No. F08635-83-C-0067, and JON 19002027 for the Headquarters Air Force Engineering and Services Center, Engineering and Services Laboratory, Environics Division, Tyndall AFB, Florida 32403. Thomas B. Stauffer was the AFESC/RDVC Project Officer.

The work was begun in December 1982 and completed in November 1983. This Interim report covers the analysis of 54 different JP-4 fuel samples, one JP-5 sample and one shale-derived JP-4 sample.

This report is presented in three volumes. Volume I contains the technical discussion, Volume II consists of illustrations and Volume III contains the sample data package for JP-4 reference fuel.

This report has been reviewed by the Public Affairs Office and is releasable to the National Technical Information Service (NTIS). At NTIS it will be available to the general public, including foreign nations.

This report has been reviewed and is approved for publication.

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SECTION I  
SAMPLE DATA PACKAGE FOR THE REFERENCE JP-4 FUEL

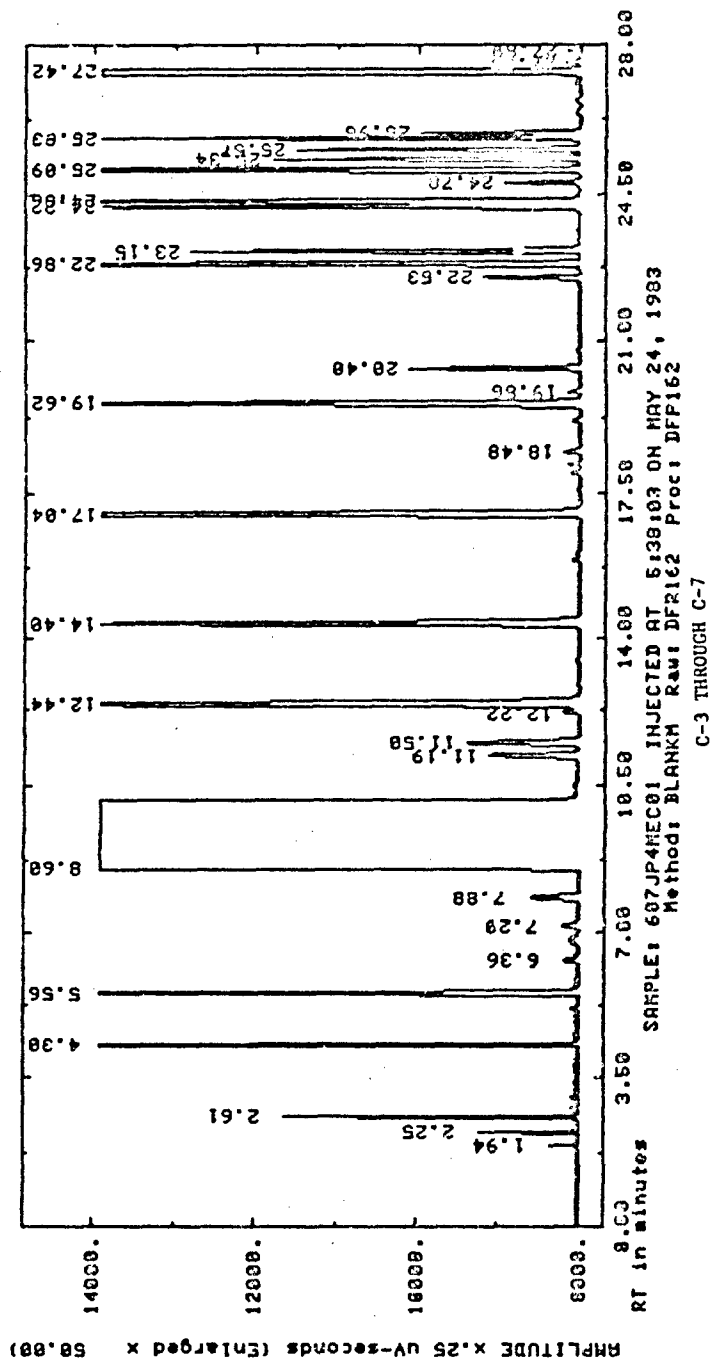
DATA PACKAGE FOR FUEL #607

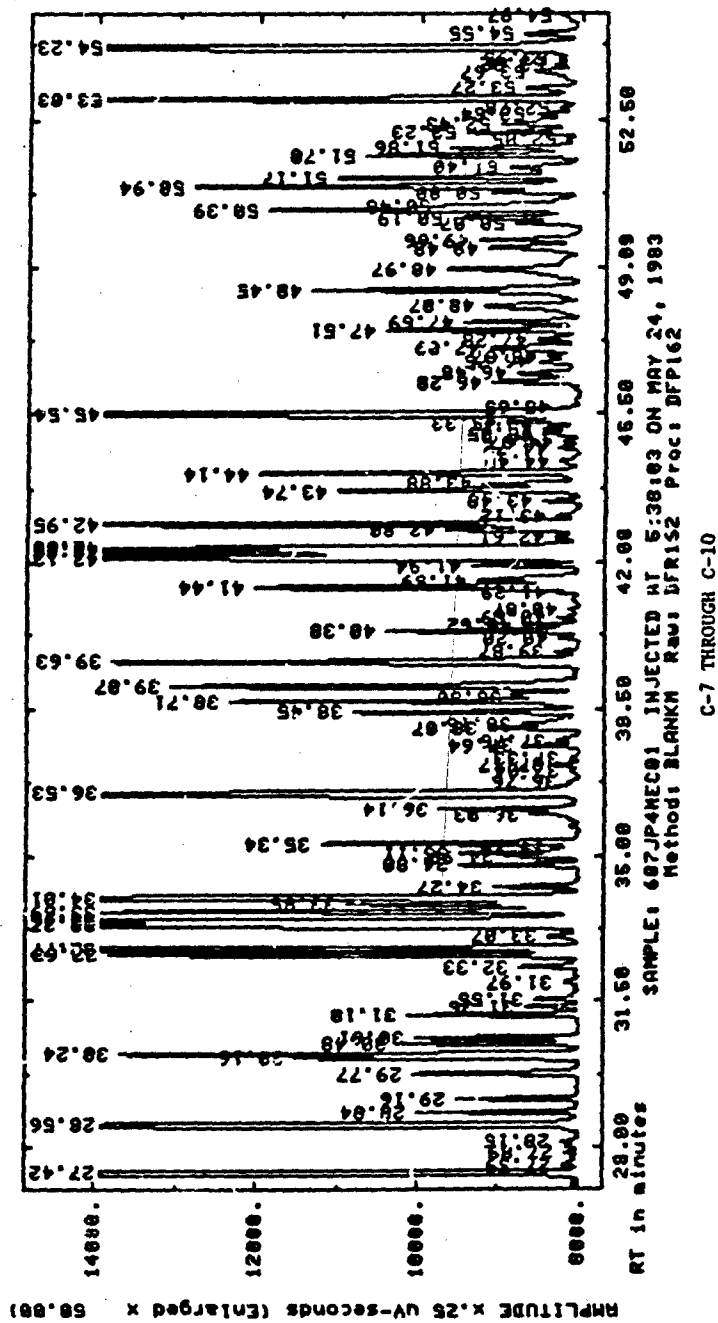
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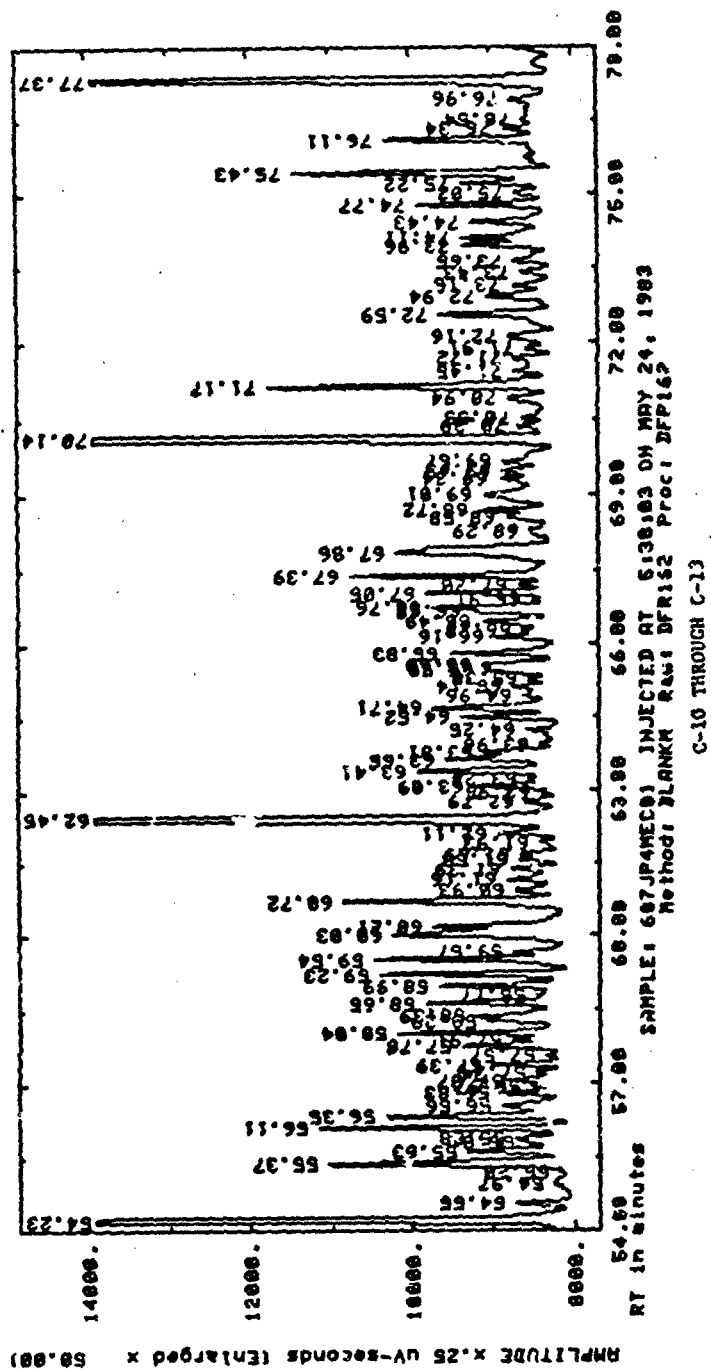
-tan sheet-		
1. GC/FID Chromatogram #1		DFR 162
2. GC/FID Chromatogram #2		DFR 163
-yellow sheet-		
3. Processed File Containing Retention Times #1		DFP 162
4. Processed File Containing Retention Times #2		DFP 163
-green sheet-		
5. Table Correlating RT with KI #1		<u>✓</u>
6. Table Correlating RT with KI #2		<u>✓</u>
-orange sheet-		
7. Processed File (Absolute Amounts) #1		BKP 162
8. Processed File (Absolute Amounts) #2		BKP 163
9. Data Base Statistics (Absolute Amounts)		<u>✓</u>
-gold sheet-		
10. Processed File (% Rel. to Ref.) #1		BIP 162
11. Processed File (% Rel. to Ref.) #2		BIP 163
12. Data Base Statistics (% Rel. to Ref.)		MH <u>✓</u>
-blue sheet-		
13. GC/MS Chromatogram		FRN 17742
-pink sheet-		
14. ISTD Output from MS		#1 <u>✓</u>
		#2 <u>✓</u>

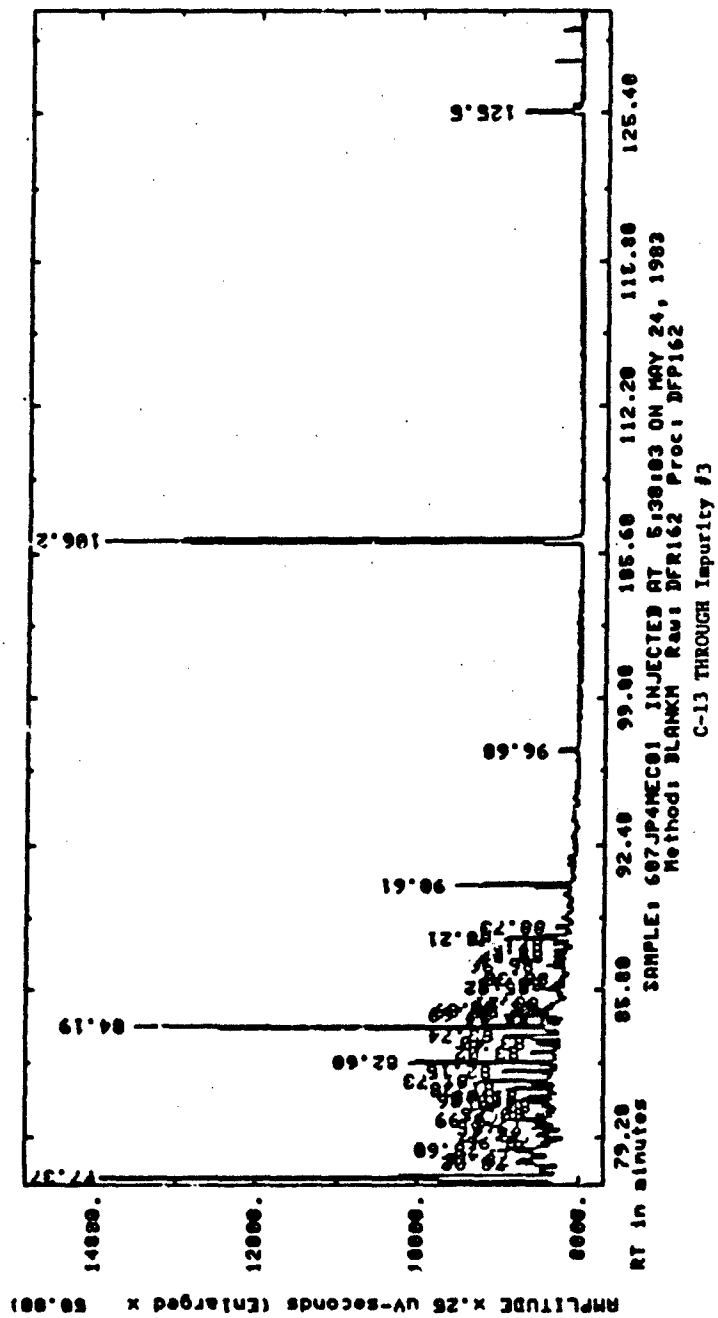
GC/FID CHROMATOGRAMS OF FUEL #607

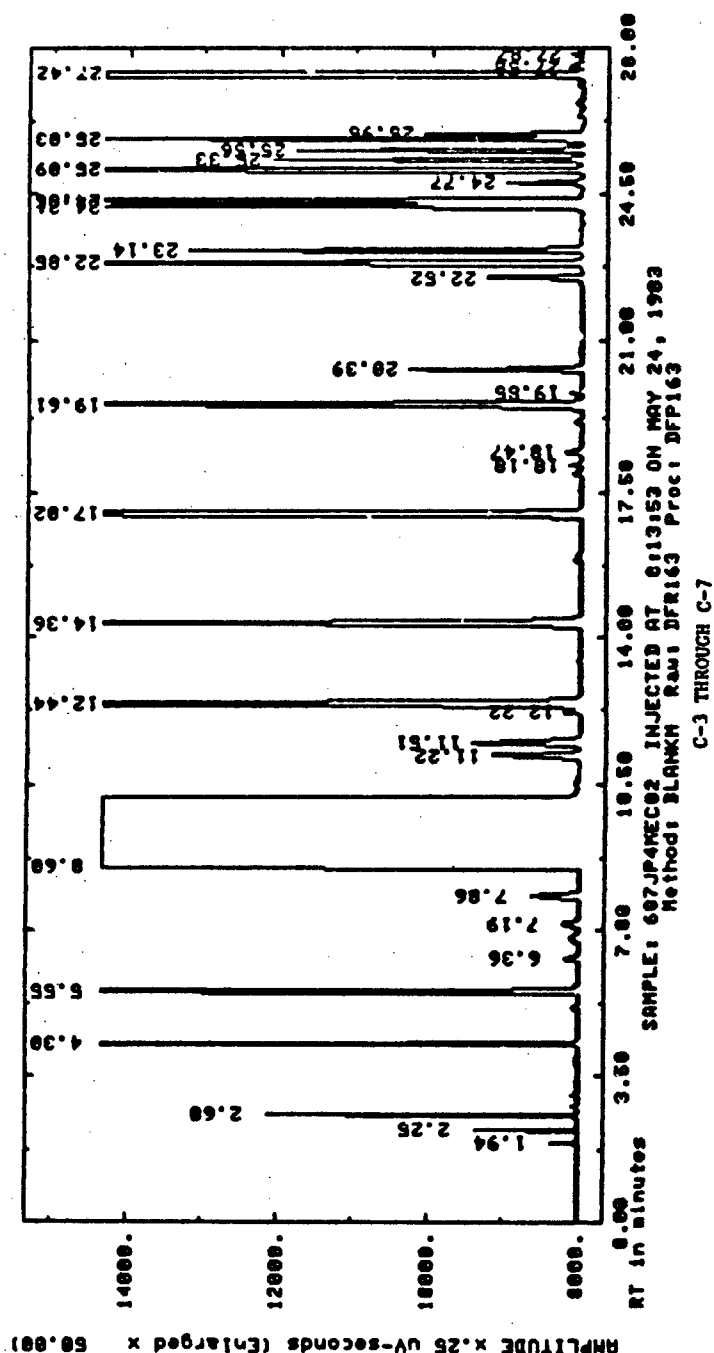


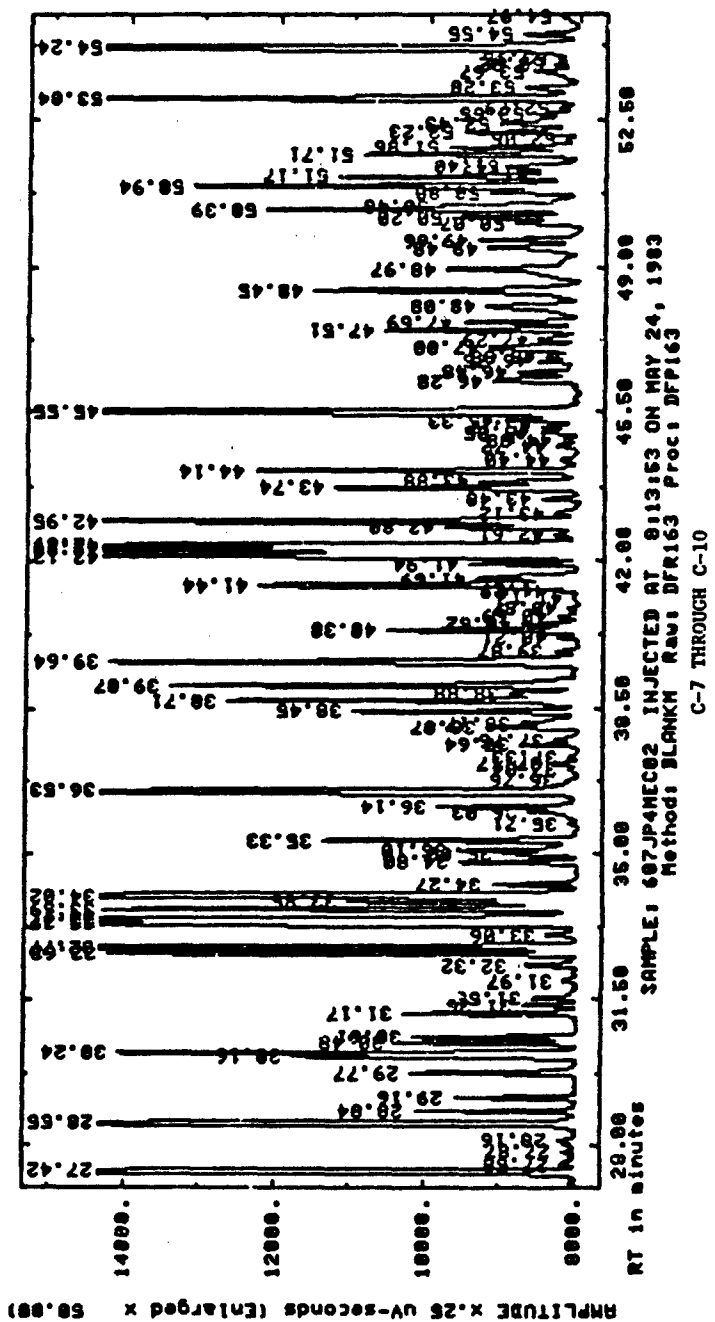




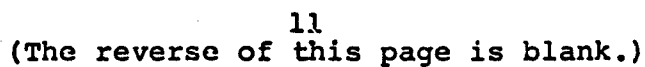














RETENTION TIMES OF FEATURES IN FUEL : 607

REPORT: 7.21 CHANNEL: 12

DISTILLATE FUELS

SAMPLE: 607JP4MEC01 INJECTED AT 5:38:03 ON MAY 24, 1983

ISTD METHOD: DFANME BTL: 13

ACTUAL RUN TIME: 130.021 MINUTES

ISTD-RATIO: 10.000 mg/ml STD-AMT: 10.0000 SAMP-AMT: 1.0000

RT	AREA	mg/ml	NAME
1.94	622 VV	.131	
2.25	2270 VV	.478	
2.61	7088 BV	1.491	#400-(KI= 400)M
4.30	31125 VV	6.548	
5.56	47377 VV	9.967	#500-(KI= 500)M
6.36	678 VV	.143	
7.20	1041 VV	.219	
7.88	4102 BV	.863	
9.60	16843340 ++	0.000	CH2CL2 SOLVENT
11.19	7456 VV	1.569	
11.50	9037 VV	1.901	
12.22	521 VB	.110	IMPURITY #1-(KI= 558)
12.44	53562 BV	11.268	
14.40	37693 VV	7.930	
17.04	92429 VV	19.445	#600-(KI= 600)M
18.48	1153 BB	.243	
19.62	49092 VV	10.328	
19.86	569 VB	.120	
20.40	9566 BB	2.013	
22.53	5491 VV	1.155	
22.86	46372 BB	9.756	
23.15	19578 BB	4.119	
24.22	27270 BV	5.737	
24.36	65988 VB	13.883	
24.78	3974 VB	.836	IMPURITY #2-(KI= 674)
25.09	79920 BV	16.814	
25.34	14215 VV	2.990	
25.57	13623 VV	2.866	
25.83	24739 VV	5.205	
25.96	7681 VB	1.616	
27.42	145618 VV	30.635	#700-(KI= 700)M
27.59	681 VV	.143	
27.89	670 VV	.141	
29.15	1028 VB	.216	
28.56	92241 VV	19.406	
28.84	8329 VV	1.752	
29.16	5982 BB	1.258	
29.77	9375 FB	1.972	
30.16	13897 BV	2.924	
30.24	23418 VV	4.927	
30.48	9329 VV	1.963	
30.61	8431 VB	1.774	
31.18	9021 BV	1.898	

31.36	2881 VV	.606
31.55	2694 VB	.567
31.97	763 BB	.160

REPORT: 7.21 (CONTINUED) PAGE: 2 DISTILLATE FUELS

RT	AREA	ms/m1	NAME
32.33	3411 BB	.718	
32.63	24650 BV	5.186	
32.77	48979 VV	10.304	
33.07	1641 VB	.345	
33.37	103187 BV	21.708	
33.46	40231 VV	8.464	
33.69	26884 VV	5.656	
33.85	14501 VV	3.051	
34.01	117029 VV	24.621	
34.27	4803 VB	1.010	
34.80	6538 BV	1.380	
34.99	4029 VV	.848	
35.11	7339 VV	1.544	
35.20	799 VV	.168	
35.34	14981 VB	3.152	
36.03	3437 VV	.723	
36.14	8290 VB	1.744	
36.53	155096 BV	32.629	\$800-(KI= 800)M
36.76	537 VB	.113	
37.04	739 BV	.156	
37.17	1407 VV	.296	
37.33	519 VB	.109	
37.64	3229 BV	.679	
37.76	1565 VV	.329	
38.07	5224 VV	1.099	
38.16	4674 VV	.983	
38.45	12981 VV	2.731	
38.71	22348 VV	4.702	
38.80	6300 ++	1.325	
39.07	32506 VV	6.839	
39.63	36176 BV	7.611	
39.87	1359 VB	.286	
40.20	1198 BV	.252	
40.38	11895 VV	2.503	
40.52	3396 VV	.714	
40.69	1433 VV	.301	
40.87	719 VB	.151	
41.29	988 BV	.208	
41.44	26449 VV	5.564	
41.59	10082 VV	2.121	
41.94	6197 VV	1.304	
42.13	47233 VV	9.937	
42.28	31283 VV	6.581	
42.38	36010 VV	7.576	
42.61	837 VB	.176	
42.80	7344 BV	1.545	
42.95	40608 VV	8.543	
43.12	1653 VB	.348	
43.48	2322 BV	.488	
43.74	16570 VV	3.486	
43.88	6426 VV	1.352	
44.14	20997 VV	4.417	
44.40	1646 VB	.346	

44.72	1460 BV	.307
44.87	824 WV	.173
45.05	2364 WV	.497

REPORT: 7.21 (CONTINUED) PAGE: 3 DISTILLATE FUELS

RT	AREA	SB/ml	NAME
45.17	2304 WV	.485	
45.33	4588 WV	.965	
45.54	92413 WV	19.442	\$900-(KI= 900)M
45.65	756 VB	.159	
46.28	6545 BV	1.377	
46.48	3850 VB	.810	
46.75	2051 BV	.432	
46.87	1641 WV	.345	
47.09	9214 WV	1.938	
47.28	2564 WV	.539	
47.51	12322 WV	2.592	
47.69	6797 WV	1.430	
48.07	10281 WV	2.163	
48.45	22647 WV	4.764	
48.97	17165 WV	3.611	
49.48	8016 WV	1.687	
49.66	7281 WV	1.532	
50.07	4675 WV	.983	
50.19	8297 WV	1.746	
50.39	23100 WV	4.860	
50.48	7612 WV	1.601	
50.80	4613 WV	.971	
50.94	24681 WV	5.192	
51.17	11912 WV	2.506	
51.40	2788 BV	.587	
51.70	13040 WV	2.743	
51.86	8641 WV	1.818	
52.05	566 WV	.119	
52.23	8183 WV	1.722	
52.43	7379 WV	1.552	
52.64	2919 WV	.614	
52.78	1163 WV	.245	
53.03	40786 WV	8.591	
53.27	4594 WV	.967	
53.67	5288 WV	1.113	
53.82	1623 WV	.341	
53.95	1326 WV	.279	
54.23	74820 WV	15.741	\$1000-(KI= 1000)M
54.55	3959 VB	.833	
54.97	2434 BV	.512	
55.20	531 WV	.112	
55.37	21753 WV	4.575	
55.63	8262 WV	1.738	
55.81	2802 WV	.589	
55.88	4011 WV	.844	
56.11	17275 WV	3.634	
56.35	12569 WV	2.644	
56.56	8609 WV	1.811	
56.83	5575 WV	1.173	
56.97	2229 WV	.469	
57.07	4662 WV	.985	
57.24	2217 WV	.467	
57.39	5024 WV	1.057	

57.57	1489	WV	.313
57.78	8529	WV	1.794
57.91	3341	WV	.703

REPORT:

7.21 (CONTINUED)

PAGE: 4

DISTILLATE FUELS

RT	AREA	ms/ml	NAME
58.04	13268	WV	2.791
58.29	5265	WV	1.108
58.39	8487	WV	1.786
58.65	10556	WV	2.221
58.77	2543	WV	.535
58.99	9084	WV	1.911
59.23	12550	WV	2.640
59.54	14265	WV	3.001
59.67	3483	WV	.733
60.03	18570	WV	3.907
60.21	10455	WV	2.200
60.72	17833	WV	3.752
60.93	4786	WV	1.007
61.16	5634	WV	1.185
61.39	3408	WV	.717
61.58	2634	WV	.554
61.69	2966	WV	.624
61.93	1467	WV	.309
62.11	5306	WV	1.116
62.45	89668	WV	18.864
62.79	2834	WV	.596
62.95	591	WV	.124
63.09	5976	WV	1.257
63.24	1833	WV	.386
63.41	11318	WV	2.381
63.65	9839	WV	2.070
63.81	4571	WV	.962
63.96	695	WV	.146
64.25	1594	BV	.335
64.52	6074	WV	1.278
64.71	8886	WV	1.869
64.96	524	VB	.110
65.14	1199	BV	.252
65.30	866	WV	.182
65.50	5489	WV	1.155
65.60	4727	WV	.994
65.83	8427	WV	1.773
66.16	4274	WV	.809
66.28	1857	WV	.391
66.49	7384	WV	1.553
66.68	4145	WV	.872
66.76	8671	WV	1.824
66.91	1207	WV	.254
67.03	8445	WV	1.777
67.20	2277	WV	.479
67.39	15815	WV	3.327
67.86	22925	WV	4.823
68.29	3342	WV	.703
68.58	4319	WV	.909
68.72	5206	WV	1.095
69.01	12081	WV	2.542
69.34	5958	WV	1.253
69.49	4854	WV	1.021

\*1100-(KI= 1100)M

69.67 6556 WV 1.379  
70.14 72724 WV 15.300  
70.39 2368 WV .709

\$1200-(KI= 1200)M

REPORT: 7.21 (CONTINUED) PAGE: 5 DISTILLATE FUELS

RT	AREA	ms/ml	NAME
70.55	3314 WV	.697	
70.94	5509 WV	1.159	
71.17	24112 WV	5.073	
71.45	4912 WV	1.033	
71.72	3087 WV	.649	
71.91	2088 WV	.439	
72.16	5628 WV	1.184	
72.59	11450 WV	2.409	
72.94	7101 WV	1.494	
73.16	3328 WV	.700	
73.43	2592 WV	.545	
73.65	4732 WV	.996	
73.96	6520 WV	1.372	
74.11	9723 WV	2.046	
74.43	7507 WV	1.579	
74.77	9739 WV	2.049	
75.02	3599 WV	.757	
75.22	6540 WV	1.376	
75.43	19729 WV	4.151	
76.11	10616 BV	2.234	
76.34	1813 WV	.381	
76.54	577 WV	.121	
76.96	2131 BV	.448	
77.37	61407 WV	12.919	\$1300-(KI= 1300)M
78.02	3257 BV	.635	
78.16	2245 VB	.472	
78.60	3552 BV	.747	
78.96	1458 WV	.307	
79.27	3454 WV	.727	
79.65	2000 WV	.421	
79.99	2770 BV	.583	
80.25	1047 WV	.220	
80.61	1006 WV	.212	
80.86	4386 WV	.923	
81.05	2199 WV	.463	
81.38	3783 VB	.796	
81.73	6916 BB	1.455	
82.16	3580 BV	.753	
82.60	9993 BB	2.102	
83.02	1856 BB	.390	
83.40	1614 BV	.340	
83.74	6479 WV	1.363	
84.19	29058 BV	6.113	\$1400-(KI= 1400)M
84.44	1381 WV	.291	
84.69	4556 WV	.958	
84.89	4357 WV	.917	
85.05	1164 WV	.245	
85.21	1140 VB	.240	
85.92	2288 BV	.481	
86.13	706 VB	.149	
86.38	557 BB	.117	
86.96	1357 BV	.286	
87.42	869 WV	.183	

87.62	1203 VV	.253
87.96	1620 VV	.341
88.21	7022 VB	1.477

REPORT: 7.21 (CONTINUED) PAGE: 6 DISTILLATE FUELS

RT	AREA	ms/m1	NAME
88.73	1530 BB	.322	
90.61	8346 BB	1.756	*1500-(KI= 1500)M
96.68	1330 BB	.280	*1600-(KI= 1600)M
106.22	52286 BB		&ANTH-d10(1S)(KI=1772)
125.50	4562 BB	.960	*2118-(IMPURITY #3)M

TOTAL AREA = 20338776 TOTAL ms/m1 = 724.372

PROCESSED DATA FILE: DFP162 RAW DATA FILE: DFR162

REPORT: 8.41 CHANNEL: 12

DISTILLATE FUELS

SAMPLE: 607JP4MEC02 INJECTED AT 8:13:53 ON MAY 24, 1983

ISTD METHOD: DFANNE BTL: 13

ACTUAL RUN TIME: 130.017 MINUTES

ISTD-RATIO: 10.000 ms/ml STD-AMT: 10.0000 SAMP-AMT: 1.0000

RT	AREA	ms/ml	NAME
1.94	646 VV	.127	
2.25	2399 VV	.472	
2.60	7594 VV	1.495	\$400-(KI= 400)M
4.30	33257 VV	6.549	
5.55	50615 VV	9.967	\$500-(KI= 500)M
6.36	1009 VV	.199	
7.19	1169 VV	.230	
7.86	4469 VV	.890	
8.60	17987276 ++	0.000	CH2CL2 SOLVENT
11.22	7936 VV	1.563	
11.51	9633 VV	1.897	
12.22	1118 BV	.220	IMPURITY #1-(KI= 538)
12.44	58420 VV	11.504	
14.36	40405 VV	7.956	
17.02	98952 VV	19.485	\$600-(KI= 600)M
18.18	680 BB	.134	
18.47	1210 BV	.238	
19.61	52494 VV	10.337	
19.85	679 VB	.134	
20.39	10125 BV	1.994	
22.52	5659 BV	1.154	
22.85	49745 BB	9.796	
23.14	21013 BB	4.138	
24.21	29375 VV	5.784	
24.35	70773 VB	13.936	
24.77	4308 BV	.848	IMPURITY #2-(KI= 674)
25.09	85838 VV	16.903	
25.33	15284 VV	3.010	
25.56	14645 VV	2.884	
25.83	26588 VV	5.236	
25.95	8274 VB	1.629	
27.42	156508 BV	30.819	\$700-(KI= 700)M
27.58	995 VV	.196	
27.87	642 BV	.126	
28.16	759 BB	.150	
28.55	98970 BV	19.489	
28.84	8965 VB	1.765	
29.16	6408 BB	1.262	
29.77	10041 BB	1.977	
30.16	14916 BV	2.937	
30.24	25136 VV	4.950	
30.48	10022 VV	1.973	
30.61	9038 VB	1.780	



31.17	9672 BV	1.905
31.36	3106 VV	.612
31.55	2870 VB	.565

REPORT: 8.41 (CONTINUED) PAGE: 2 DISTILLATE FUELS

RT	AREA	ms/ml	NAME
31.97	943 BB	.186	
32.32	3723 BV	.733	
32.62	26565 VV	5.231	
32.77	52640 VV	10.366	
33.06	1744 VB	.343	
33.37	111046 BV	21.867	
33.47	43168 VV	8.500	
33.69	28891 VV	5.689	
33.85	15591 VV	3.070	
34.02	125839 VV	24.780	
34.27	5162 VB	1.016	
34.80	7021 BV	1.383	
35.00	4309 VV	.848	
35.10	8719 VV	1.717	
35.33	16018 VB	3.154	
35.71	522 BV	.103	
36.03	3711 VV	.731	
36.14	8777 VV	1.728	
36.53	166851 BV	32.856	*800-(KI= 800)M
36.76	590 VB	.116	
37.04	781 BV	.154	
37.17	1504 VV	.296	
37.33	542 VB	.107	
37.64	3457 BV	.681	
37.76	1651 VB	.325	
38.07	5512 BV	1.085	
38.17	4488 VV	.884	
38.45	12859 VV	2.532	
38.71	18428 VV	3.629	
38.88	1019 BV	.201	
39.07	33529 VV	6.603	
39.64	38927 BV	7.665	
39.87	1459 VB	.287	
40.21	1300 BV	.256	
40.38	12781 VV	2.517	
40.52	3648 VV	.718	
40.69	1524 VV	.300	
40.87	769 VB	.151	
41.12	521 BB	.103	
41.29	1061 BV	.209	
41.44	28462 VV	5.405	
41.59	10835 VV	2.134	
41.94	6820 VV	1.343	
42.13	51743 VV	10.189	
42.29	33484 VV	6.594	
42.39	39802 VV	7.838	
42.61	2208 VV	.435	
42.80	9167 VV	1.805	
42.95	44746 VV	8.811	
43.12	2371 VV	.467	
43.48	2545 VV	.501	
43.74	17806 VV	3.506	
43.88	6996 VV	1.378	

44.14	22625 W	4.455
44.40	1783 VB	.351
44.72	1400 BV	.315

REPORT: 8.41 (CONTINUED) PAGE: 3 DISTILLATE FUELS

RT	AREA	ms/ml	NAME
44.88	926 W	.182	
45.05	2632 W	.518	
45.17	2553 W	.503	
45.33	5101 W	1.004	
45.55	100743 W	19.838	8900-(KI= 900)M
46.28	7016 W	1.381	
46.48	4198 VB	.827	
46.75	2222 BV	.437	
46.88	1736 W	.342	
47.08	9954 W	1.960	
47.29	2761 W	.544	
47.51	13267 W	2.613	
47.69	7349 W	1.447	
48.08	11121 W	2.190	
48.45	24460 W	4.817	
48.97	18555 W	3.654	
49.48	8660 W	1.705	
49.66	7875 VB	1.551	
50.07	5177 BV	1.019	
50.20	9328 W	1.837	
50.39	25208 W	4.964	
50.48	9586 W	1.888	
50.80	6192 W	1.219	
50.94	29763 W	5.861	
51.17	17586 W	3.463	
51.29	2022 W	.398	
51.40	7777 W	1.531	
51.71	14730 W	2.901	
51.86	9895 W	1.949	
52.06	934 W	.184	
52.23	9417 W	1.854	
52.43	8543 W	1.682	
52.65	3415 W	.672	
52.79	1557 W	.307	
53.04	44456 W	8.754	
53.28	5330 W	1.050	
53.67	6129 W	1.207	
53.82	1921 W	.378	
53.95	1498 W	.295	
54.24	80933 W	15.937	81000-(KI= 1000)M
54.55	4322 VB	.851	
54.97	2033 BV	.401	
55.37	20696 W	4.075	
55.63	5419 W	1.067	
55.89	989 B.	.195	
56.11	16654 W	3.280	
56.35	13075 W	2.575	
56.57	8900 W	1.752	
56.83	5643 W	1.111	
56.98	2324 W	.458	
57.07	4764 W	.938	
57.24	2224 W	.438	
57.40	5205 W	1.025	

57.57	1432 W	.282
57.78	9019 W	1.776
57.91	3466 W	.682

REPORT: 8.41 (CONTINUED) PAGE: 4 DISTILLATE FUELS

RT	AREA	ms/ml	NAME
58.04	14119 W	2.780	
58.29	5845 W	1.151	
58.39	8705 W	1.714	
58.65	11253 W	2.216	
58.77	1770 W	.349	
58.86	940 W	.185	
58.99	9715 W	1.913	
59.23	13547 W	2.668	
59.54	15316 W	3.016	
59.68	3767 W	.742	
60.03	20054 W	3.949	
60.21	11157 W	2.197	
60.72	19191 W	3.779	
60.94	5110 W	1.006	
61.16	5953 W	1.172	
61.39	3725 W	.734	
61.58	2884 W	.568	
61.69	3097 W	.610	
61.94	1559 W	.307	
62.11	5668 W	1.116	
62.45	96547 W	19.012	81100-(KI= 1100)M
62.79	3009 W	.592	
62.96	623 W	.123	
63.10	6458 W	1.272	
63.24	1911 W	.376	
63.41	12288 W	2.420	
63.66	10614 W	2.090	
63.81	4740 W	.933	
63.96	749 W	.148	
64.25	1745 W	.344	
64.52	6571 W	1.294	
64.71	9585 W	1.888	
64.96	714 W	.141	
65.14	1286 W	.253	
65.31	947 W	.187	
65.50	6080 W	1.197	
65.60	4973 W	.979	
65.83	9101 W	1.792	
66.16	4535 W	.893	
66.27	1988 W	.391	
66.49	7797 W	1.535	
66.68	4327 W	.852	
66.77	9194 W	1.810	
66.91	1157 W	.228	
67.05	8849 W	1.743	
67.20	2218 W	.437	
67.39	16351 W	3.220	
67.87	15188 W	2.991	
67.93	8136 W	1.602	
68.29	1640 W	.323	
68.57	3578 W	.705	
68.71	4886 W	.962	
69.02	11528 W	2.270	

69.35	5688 VV	1.120
69.49	4871 VV	.959
69.68	6639 VV	1.307

REPORT: 8.41 (CONTINUED) PAGE: 5 DISTILLATE FUELS

RT	AREA	ms/ml	NAME
70.15	77616 VV	15.284	\$1200-(KI= 1200)M
70.39	2765 VV	.545	
70.54	1703 VV	.335	
70.93	3755 BV	.739	
71.17	23398 VV	4.607	
71.46	1633 VV	.321	
71.71	1516 BV	.299	
71.90	1794 VV	.353	
72.15	5772 VV	1.137	
72.59	12315 VV	2.425	
72.94	7583 VV	1.493	
73.16	3594 VV	.708	
73.43	2767 VV	.545	
73.64	5056 VV	.996	
73.96	6947 VV	1.368	
74.11	10509 VV	2.069	
74.42	7990 VV	1.573	
74.77	10455 VV	2.059	
75.03	3804 VV	.749	
75.22	7024 VV	1.383	
75.43	21112 VV	4.157	
76.11	11383 BV	2.242	
76.33	1936 VV	.381	
76.95	2384 BV	.470	
77.37	65670 BV	12.931	\$1300-(KI= 1300)M
78.02	3602 BV	.709	
78.16	2355 VB	.464	
78.48	1236 BV	.243	
78.59	6622 VV	1.304	
78.94	2275 VV	.448	
79.27	3793 VV	.747	
79.64	2902 VV	.571	
79.98	6072 VV	1.196	
80.24	1806 VV	.356	
80.39	645 VB	.127	
80.60	1042 BV	.205	
80.84	4662 VV	.918	
81.05	2328 VV	.458	
81.38	4304 VV	.848	
81.73	8553 VV	1.684	
82.16	4215 VV	.830	
82.59	10674 BV	2.102	
83.02	2000 BV	.394	
83.40	1728 BV	.340	
83.72	7381 VV	1.453	
84.18	32257 VV	6.352	\$1400-(KI= 1400)M
84.43	1585 VV	.312	
84.68	4874 VV	.960	
84.88	4546 VV	.895	
85.04	1223 VV	.241	
85.20	1135 VB	.224	
85.59	539 BV	.106	
85.92	1448 BV	.285	

86.11	696 VB	.137
86.37	606 BB	.119
86.95	1541 BV	.303

REPORT: 8.41 (CONTINUED) PAGE: 6 DISTILLATE FUELS

RT	AREA	ms/ml	NAME
87.13	701 VV	.138	
87.62	1077 VV	.212	
87.94	1767 VV	.348	
88.20	7452 VB	1.467	
88.72	1595 BB	.314	
90.60	8926 BB	1.758	\$1500-(KI= 1500)M
96.66	1419 BB	.279	\$1600-(KI= 1600)M
106.21	55861 BB		&ANTH-d10(1S)(KI=1772)
125.50	4711 BB	.928	\$2118-(IMPURITY #3)M

TOTAL AREA = 21731636 TOTAL ms/ml = 726.326

PROCESSED DATA FILE: DFP163 RAW DATA FILE: DFR163

CORRELATION OF RETENTION TIMES WITH KOVATS INDICES IN FUEL # 607

# CORRELATION OF RETENTION TIMES (MIN)

WITH KOVATS INDEX FOR SAMPLE: 607JP4MEC01

PROCESSED DATA FILE: DFP162

RAW DATA FILE: DFR162

RT	RET. INDEX	AREA	CONC.	NAME
1.94	377	622	.131	
2.25	388	2270	.478	
2.61	400	7088	1.491	\$400-(KI= 400)M
4.30	457	31125	6.548	
5.56	500	47377	9.967	\$500-(KI= 500)M
6.36	507	678	.143	
7.20	514	1041	.219	
7.88	520	4102	.863	
8.60	526	16843340		CH2CL2 SOLVENT
11.19	549	7456	1.549	
11.50	552	9037	1.901	
12.22	558	521	.110	IMPURITY #1-(KI= 558)
12.44	560	53562	11.268	
14.40	577	37693	7.930	
17.04	600	92429	19.445	\$600-(KI= 600)M
18.48	614	1153	.243	
19.62	625	49092	10.328	
19.86	627	569	.120	
20.40	632	9566	2.013	
22.53	653	5491	1.155	
22.86	656	46372	9.736	
23.15	659	19578	4.119	
24.22	669	27270	5.737	
24.36	670	65988	13.883	
24.78	675	3974	.836	IMPURITY #2-(KI= 674)
25.09	678	79920	16.814	
25.34	680	14215	2.990	
25.37	682	13623	2.866	
25.83	685	24739	5.205	
25.96	686	7681	1.616	
27.42	700	145618	30.635	\$700-(KI= 700)M
27.59	702	681	.143	
27.89	705	670	.141	
28.15	708	1028	.216	
28.56	712	92241	19.406	
28.84	716	8329	1.752	
29.16	719	5982	1.258	
29.77	726	9375	1.972	
30.16	730	13897	2.924	

30.24	731	23418	4.927
30.48	734	9329	1.963
30.61	735	8431	1.774
31.18	741	9021	1.898
31.36	743	2881	.605
31.55	745	2694	.567
31.97	750	763	.160
32.33	754	3411	.718
32.63	757	24650	5.186
32.77	759	48979	10.304
33.07	762	1641	.345
33.37	765	103187	21.708
33.46	766	40231	8.464
33.69	769	26884	5.656
33.85	771	14501	3.051
34.01	772	117029	24.621
34.27	775	4803	1.010
34.80	781	6558	1.380
34.99	783	4029	.848
35.11	784	7339	1.544
35.20	785	799	.168
35.34	787	14981	3.152
36.03	794	3437	.723
36.14	796	8290	1.744
36.53	800	155096	32.629
36.76	803	537	.113
37.04	806	739	.156
37.17	807	1407	.296
37.33	809	519	.109
37.64	812	3229	.679
37.76	814	1565	.329
38.07	817	5224	1.099
38.16	818	4674	.983
38.45	821	12981	2.731
38.71	824	22348	4.702
38.80	825	6300	1.325
39.07	828	32506	6.839
39.63	834	36176	7.611
39.87	837	1359	.286
40.20	841	1198	.252
40.38	843	11895	2.503
40.52	844	3396	.714
40.69	846	1423	.301
40.87	848	719	.151
41.29	853	988	.208
41.44	854	26449	5.564
41.59	856	10082	2.121
41.94	860	6197	1.304
42.13	862	47233	9.937
42.28	864	31233	6.581
42.38	865	36010	7.576
42.61	867	837	.176
42.80	870	7344	1.545
42.95	871	40608	8.543
43.12	873	1653	.348
43.48	877	2322	.488
43.74	880	16570	3.486
43.88	882	6426	1.352
44.14	884	20997	4.417
44.40	887	1646	.346
44.72	891	1460	.307

8800-(KI= 800)M



44.87	893	824	.173	
45.05	895	2364	.497	
45.17	896	2304	.485	
45.33	898	4588	.965	
45.54	900	92413	19.442	8900-(KI= 900)M
45.65	901	756	.159	
46.28	908	6545	1.377	
46.48	911	3850	.810	
46.75	914	2051	.432	
46.87	915	1641	.345	
47.09	918	9214	1.938	
47.28	920	2564	.539	
47.51	923	12322	2.592	
47.69	925	6797	1.430	
48.07	929	10281	2.163	
48.45	933	22647	4.764	
48.97	939	17165	3.611	
49.48	945	8017	1.687	
49.66	947	7281	1.532	
50.07	952	4675	.983	
50.19	954	8297	1.746	
50.39	956	23100	4.860	
50.48	957	7612	1.601	
50.80	960	4613	.971	
50.94	962	24681	5.192	
51.17	965	11912	2.506	
51.40	967	2788	.587	
51.70	971	13040	2.743	
51.86	973	8641	1.818	
52.05	975	566	.119	
52.23	977	8183	1.722	
52.43	979	7379	1.552	
52.64	982	2919	.614	
52.78	983	1163	.245	
53.03	986	40787	8.581	
53.27	989	4594	.967	
53.67	994	5288	1.113	
53.82	995	1623	.341	
53.95	997	1326	.279	
54.23	1000	74820	15.741	81000-(KI= 1000)M
54.55	1004	3959	.833	
54.97	1009	2434	.512	
55.20	1012	531	.112	
55.37	1014	21753	4.576	
55.63	1017	8262	1.738	
55.81	1019	2802	.589	
55.88	1020	4011	.844	
56.11	1023	17275	3.634	
56.35	1026	12569	2.644	
56.56	1028	8609	1.811	
56.83	1032	5575	1.173	
56.97	1033	2229	.469	
57.07	1035	4682	.985	
57.24	1037	2217	.467	
57.39	1039	5024	1.057	
57.57	1041	1489	.313	
57.78	1043	8529	1.794	
57.91	1045	3341	.703	
58.04	1046	13268	2.791	
58.29	1049	5265	1.108	
58.39	1051	8487	1.786	

58.65	1054	10556	2.221	
58.77	1055	2543	.535	
58.99	1058	9084	1.911	
59.23	1061	12550	2.640	
59.54	1065	14265	3.001	
59.67	1066	3483	.733	
60.03	1071	18570	3.907	
60.21	1073	10455	2.200	
60.72	1079	17833	3.752	
60.93	1082	4786	1.007	
61.16	1084	5634	1.185	
61.39	1087	3408	.717	
61.58	1089	2634	.554	
61.69	1091	2966	.624	
61.93	1094	1467	.309	
62.11	1096	5306	1.116	
62.45	1100	89668	18.864	*1100-(KI= 1100)M
62.79	1104	2834	.596	
62.95	1107	591	.124	
63.09	1108	5976	1.257	
63.24	1110	1833	.386	
63.41	1113	11318	2.381	
63.65	1116	9839	2.070	
63.81	1118	4571	.962	
63.96	1120	695	.146	
64.25	1123	1594	.335	
64.52	1127	6074	1.278	
64.71	1129	8886	1.869	
64.96	1133	524	.110	
65.14	1135	1199	.252	
65.30	1137	866	.182	
65.50	1140	5409	1.155	
65.60	1141	4727	.994	
65.83	1144	8427	1.773	
66.16	1148	4274	.899	
66.28	1150	1857	.391	
66.49	1153	7384	1.553	
66.68	1155	4145	.872	
66.76	1156	8671	1.824	
66.91	1158	1207	.254	
67.05	1160	8445	1.777	
67.20	1162	2277	.479	
67.39	1164	15815	3.327	
67.86	1170	22925	4.823	
68.29	1176	3342	.703	
68.58	1180	4319	.909	
68.72	1181	5206	1.095	
69.01	1185	12081	2.542	
69.34	1190	5958	1.253	
69.49	1191	4854	1.021	
69.67	1194	6556	1.379	
70.14	1200	72724	15.300	*1200-(KI= 1200)M
70.39	1203	3368	.709	
70.55	1206	3314	.697	
70.94	1211	5509	1.159	
71.17	1214	24112	5.073	
71.45	1218	4912	1.033	
71.72	1222	3087	.649	
71.91	1224	2088	.439	
72.16	1228	5628	1.124	
72.59	1234	11450	2.409	

72.94	1239	7101	1.494	
73.16	1242	3328	.700	
73.43	1245	2592	.545	
73.66	1249	4732	.996	
73.96	1253	6520	1.372	
74.11	1255	9723	2.046	
74.43	1259	7507	1.579	
74.77	1264	9739	2.049	
75.02	1268	3599	.757	
75.22	1270	6540	1.376	
75.43	1273	19729	4.151	
76.11	1283	10616	2.234	
76.34	1286	1813	.391	
76.54	1289	577	.121	
76.96	1294	2131	.448	
77.37	1300	61407	12.919	*1300-(KI= 1300)M
78.02	1310	3257	.685	
78.16	1312	2245	.472	
78.60	1318	3552	.747	
78.96	1323	1458	.307	
79.27	1328	3454	.727	
79.65	1333	2001	.421	
79.99	1338	2770	.583	
80.25	1342	1047	.220	
80.61	1348	1006	.212	
80.86	1351	4386	.923	
81.05	1354	2199	.463	
81.38	1359	3783	.796	
81.73	1364	6914	1.455	
82.16	1370	3590	.753	
82.60	1377	9993	2.102	
83.02	1383	1856	.390	
83.40	1389	1614	.340	
83.74	1393	6479	1.113	
84.19	1400	29058	6.115	*1400-(KI= 1400)M
84.44	1404	1381	.291	
84.69	1408	4556	.958	
84.89	1411	4357	.917	
85.05	1414	1164	.245	
85.21	1416	1140	.240	
85.92	1427	2288	.481	
86.13	1430	706	.149	
86.38	1434	557	.117	
86.96	1443	1357	.286	
87.42	1450	870	.183	
87.62	1454	1203	.253	
87.96	1459	1620	.341	
88.21	1463	7022	1.477	
88.73	1471	1530	.322	
90.61	1500	6346	1.756	*1500-(KI= 1500)M
96.68	1600	1390	.280	*1600-(KI= 1600)M
106.22	1772	32266	10.000	*ANTH-d10(IS)(KI=1772)
125.50	2118	4562	.960	*2118-(IMPURITY #3)M

# CORRELATION OF RETENTION TIMES (MIN)

WITH KOVATS INDEX FOR SAMPLE: 607JP4MEC02

PROCESSED DATA FILE: DFP163

RAW DATA FILE: DFR163

RT	RET. INDEX	AREA	CONC.	NAME
1.94	377	646	.127	
2.25	388	2399	.472	
2.60	400	7594	1.495	\$400-(KI= 400)M
4.30	457	33257	6.549	
5.55	500	50615	9.967	\$500-(KI= 500)M
6.36	507	1009	.199	
7.19	514	1169	.230	
7.86	520	4469	.880	
8.60	527	17987270		CH2CL2 SOLVENT
11.22	549	7936	1.563	
11.51	552	9633	1.897	
12.22	558	1118	.220	IMPURITY #1-(KI= 558)
12.44	560	58420	11.504	
14.36	577	40405	7.956	
17.02	600	98952	19.485	\$600-(KI= 600)M
18.18	611	680	.134	
18.47	614	1210	.236	
19.61	625	52494	10.337	
19.85	627	679	.134	
20.39	632	10125	1.994	
22.52	653	5859	1.154	
22.85	656	49745	9.796	
23.14	659	21015	4.138	
24.21	669	29375	5.784	
24.35	670	70773	13.936	
24.77	675	4308	.848	IMPURITY #2-(KI= 674)
25.09	678	85838	16.903	
25.33	680	15284	3.010	
25.56	682	14645	2.884	
25.83	685	26588	5.236	
25.95	686	8274	1.629	
27.42	700	156508	30.819	\$700-(KI= 700)M
27.58	702	995	.196	
27.87	705	642	.126	
28.16	708	759	.150	
28.55	712	98970	19.489	
28.84	716	8965	1.765	
29.16	719	6408	1.262	
29.77	726	10041	1.977	

30.16	730	14916	2.937
30.24	731	25136	4.950
30.48	734	10022	1.973
30.61	735	9038	1.780
31.17	741	9672	1.905
31.36	743	3106	.612
31.55	745	2870	.565
31.97	750	943	.186
32.32	754	3723	.733
32.62	757	26565	5.231
32.77	759	52640	10.366
33.06	762	1744	.343
33.37	765	111046	21.867
33.47	766	43168	8.500
33.49	769	28991	5.689
33.85	771	15591	3.070
34.02	772	125839	24.780
34.27	775	5162	1.016
34.80	781	7021	1.383
35.00	783	4309	.848
35.10	784	8719	1.717
35.33	787	16018	3.154
35.71	791	522	.103
36.02	794	3711	.731
36.14	796	8777	1.728
36.53	800	166851	32.856
36.76	803	590	.116
37.04	806	781	.154
37.17	807	1504	.296
37.33	809	542	.107
37.64	812	3457	.681
37.76	814	1651	.325
38.07	817	5512	1.065
38.17	818	1488	.884
38.45	821	12859	2.532
38.71	824	18426	3.629
38.88	826	1019	.201
39.07	828	33529	6.603
39.64	834	38927	7.665
39.87	837	1459	.287
40.21	841	1300	.256
40.38	843	12781	2.517
40.52	844	3648	.718
40.69	846	1525	.300
40.87	848	769	.151
41.12	851	521	.103
41.29	853	1061	.209
41.44	854	28462	5.605
41.59	856	10835	2.134
41.94	860	6820	1.343
42.13	862	51743	10.189
42.29	864	33484	6.594
42.39	865	39802	7.838
42.61	867	2208	.435
42.80	869	9167	1.805
42.95	871	44746	8.811
43.12	873	2371	.467
43.48	877	2545	.501
43.74	880	17806	3.506
43.88	882	6996	1.378
44.14	894	22625	4.455

\*900-(KI= 800)M

44.40	887	1783	.351	
44.72	891	1600	.315	
44.88	893	926	.182	
45.05	895	2632	.518	
45.17	896	2553	.503	
45.33	898	5101	1.004	
45.55	900	100743	19.838	*900-(KI= 900)M
46.28	908	7016	1.381	
46.48	911	4198	.827	
46.75	914	2222	.437	
46.88	915	1736	.342	
47.08	918	9954	1.960	
47.29	920	2761	.544	
47.51	923	13267	2.613	
47.69	925	7349	1.447	
48.06	929	11121	2.190	
48.45	933	24460	4.817	
48.97	939	18555	3.654	
49.48	945	8460	1.705	
49.66	947	7875	1.551	
50.07	952	5177	1.019	
50.20	953	9328	1.837	
50.39	956	25208	4.964	
50.48	957	9586	1.888	
50.80	960	6192	1.219	
50.94	962	29763	5.861	
51.17	965	17586	3.463	
51.29	966	2022	.398	
51.40	967	7777	1.531	
51.71	971	14730	2.901	
51.86	973	9895	1.949	
52.06	975	934	.184	
52.23	977	9417	1.854	
52.43	979	8543	1.682	
52.65	982	3415	.672	
52.79	983	1557	.307	
53.04	986	44456	8.754	
53.28	989	5330	1.050	
53.67	993	6129	1.207	
53.82	995	1921	.378	
53.95	997	1498	.295	
54.24	1000	80933	15.937	*1000-(KI= 1000)M
54.55	1004	4322	.851	
54.97	1009	2038	.401	
55.37	1014	20696	4.075	
55.63	1017	5419	1.067	
55.89	1020	989	.195	
56.11	1023	16654	3.280	
56.35	1026	13075	2.575	
56.57	1028	8900	1.752	
56.83	1032	5643	1.111	
56.98	1033	2324	.458	
57.07	1035	4764	.938	
57.24	1036	2224	.438	
57.40	1038	5205	1.025	
57.57	1041	1432	.282	
57.78	1043	9019	1.776	
57.91	1045	3466	.682	
58.04	1046	14119	2.780	
58.29	1049	5845	1.151	
58.39	1051	8705	1.714	

58.65	1054	11253	2.216	
58.77	1055	1770	.349	
58.86	1056	940	.185	
58.99	1058	9715	1.913	
59.23	1061	13547	2.668	
59.54	1065	15316	3.016	
59.68	1066	3767	.742	
60.03	1071	20054	3.949	
60.21	1073	11157	2.197	
60.72	1079	19191	3.779	
60.94	1082	5110	1.006	
61.16	1084	5953	1.172	
61.39	1087	3725	.734	
61.58	1089	2884	.568	
61.69	1091	3097	.610	
61.94	1094	1559	.307	
62.11	1096	5668	1.116	
62.45	1100	96547	19.012	\$1100-(KI= 1100)M
62.79	1104	3009	.592	
62.96	1107	623	.123	
63.10	1108	6458	1.272	
63.24	1110	1911	.376	
63.41	1113	12288	2.420	
63.66	1116	10614	2.090	
63.81	1118	4740	.933	
63.96	1120	749	.148	
64.25	1123	1745	.344	
64.52	1127	6571	1.294	
64.71	1129	9585	1.888	
64.96	1133	714	.141	
65.14	1135	1287	.253	
65.31	1137	947	.187	
65.50	1140	6080	1.197	
65.60	1141	4973	.979	
65.83	1144	9101	1.792	
66.16	1148	4535	.893	
66.27	1150	1988	.391	
66.49	1153	7797	1.535	
66.68	1155	4327	.852	
66.77	1156	9194	1.810	
66.91	1158	1157	.228	
67.05	1160	8849	1.743	
67.20	1162	2218	.437	
67.39	1164	16351	3.220	
67.87	1170	15188	2.991	
67.93	1171	8136	1.602	
68.29	1176	1640	.323	
68.57	1180	3578	.705	
68.71	1181	4886	.962	
69.02	1185	11528	2.270	
69.35	1190	5688	1.120	
69.49	1192	4871	.959	
69.68	1194	6639	1.307	
70.15	1200	77616	15.284	\$1200-(KI= 1200)M
70.39	1203	2765	.545	
70.54	1206	1703	.335	
70.93	1211	3755	.739	
71.17	1214	23398	4.607	
71.46	1218	1633	.321	
71.71	1222	1516	.299	
71.90	1224	1794	.353	

72.15	1228	5772	1.137	
72.59	1234	12316	2.425	
72.94	1239	7583	1.493	
73.16	1242	3594	.708	
73.43	1245	2767	.545	
73.64	1248	5056	.996	
73.96	1253	6947	1.368	
74.11	1255	10509	2.069	
74.42	1259	7990	1.573	
74.77	1264	10455	2.059	
75.03	1268	3804	.749	
75.22	1270	7024	1.383	
75.43	1273	21112	4.157	
76.11	1283	11383	2.242	
76.33	1286	1936	.381	
76.95	1294	2384	.470	
77.37	1300	65670	12.931	\$1300-(KI= 1300)M
78.02	1310	3602	.709	
78.16	1312	2355	.464	
78.48	1316	1236	.243	
78.59	1318	6622	1.304	
78.94	1323	2275	.448	
79.27	1328	3793	.747	
79.64	1333	2902	.571	
79.98	1338	6072	1.196	
80.24	1342	1806	.356	
80.39	1344	645	.127	
80.60	1347	1042	.205	
80.84	1351	4662	.918	
81.05	1354	2328	.458	
81.38	1359	4304	.848	
81.73	1364	8553	1.684	
82.16	1370	4215	.830	
82.59	1377	10674	2.102	
83.02	1383	2000	.394	
83.40	1389	1728	.340	
83.72	1393	7381	1.453	
84.18	1400	32257	6.352	\$1400-(KI= 1400)M
84.43	1404	1585	.312	
84.68	1408	4874	.960	
84.88	1411	4546	.895	
85.05	1414	1223	.241	
85.20	1416	1135	.224	
85.59	1422	539	.106	
85.92	1427	1448	.285	
86.11	1430	696	.137	
86.37	1434	606	.119	
86.95	1443	1541	.303	
87.13	1446	701	.138	
87.62	1454	1077	.212	
87.94	1459	1767	.348	
88.20	1463	7452	1.467	
88.72	1471	1595	.314	
89.60	1500	8926	1.758	\$1500-(KI= 1500)M
90.16	1600	1419	.279	\$1600-(KI= 1600)M
106.21	1772	55861	10.090	\$ANTH-d10(1S)(KI=1772)
125.80	2118	4711	.928	\$2118-(IMPURITY #3)M



ABSOLUTE AMOUNTS (mg/ml) OF FEATURES IN FUEL # 607

REPORT: 7.22 CHANNEL: 12

ABSOLUTE AMOUNTS

SAMPLE: 607JP4MEC01 INJECTED AT 5:38:03 ON MAY 24, 1963

ISTD METHOD: DFABME BTL: 13

ACTUAL RUN TIME: 540.000 MINUTES

ISTD-RATIO: 10.000 ms/ml STD-AMT: 10.0000 SAMP-AMT: 1.0000

RT	AREA	ms/ml	NAME	
37.74	622 VV	.119	KI= 377.21	FE=001
38.81	2270 VV	.434	KI= 388.01	FE=002
40.00	7088 BV	1.356	\$400-n-C4-ANE1	FE=003
45.74	31125 VV	5.953	KI= 457.61	FE=004
50.00	47377 VV	9.061	\$500-n-C5-ANE1	FE=005
50.70	678 VV	.130	KI= 507.01	FE=006
51.43	1041 VV	.199	KI= 514.31	FE=008
52.02	4102 BV	.784	KI= 520.11	FE=009
52.65	16843340 ++	0.000	CH2CL2 SOLVENT	
54.90	7456 VV	1.426	KI= 549.71	FE=010
55.17	9037 VV	1.728	KI= 552.41	FE=011
55.79	521 VB	.100	IMPURITY #1(KI= 558.6)	
55.99	53562 BV	10.244	KI= 560.41	FE=012
57.70	37693 VV	7.209	KI= 577.31	FE=013
60.00	92429 VV	17.677	\$600-n-C6-ANE1	FE=014
61.39	1153 BB	.221	KI= 613.91	FE=017
62.48	49092 VV	9.389	KI= 624.81	FE=018
62.72	569 VB	.109	KI= 627.31	FE=019
63.24	9566 BB	1.830	KI= 632.41	FE=020
65.28	5491 VV	1.050	KI= 653.01	FE=021
65.60	46372 BB	8.869	KI= 656.11	FE=022
65.88	19578 BB	3.744	KI= 658.81	FE=023
66.91	27270 BV	5.216	KI= 669.01	FE=024
67.05	65988 VB	12.621	KI= 670.41	FE=025
67.45	3974 VB	.760	IMPURITY #2(KI= 674.4)	
67.76	79920 BV	15.285	KI= 677.41	FE=026
67.99	14215 VV	2.719	KI= 679.81	FE=027
68.21	13623 VV	2.606	KI= 682.01	FE=028
68.47	24739 VV	4.731	KI= 684.61	FE=029
68.59	7681 VB	1.469	KI= 685.81	FE=030
70.00	145618 VV	27.850	\$700-n-C7-ANE1	FE=031
70.18	681 VV	.130	KI= 701.81	FE=032
70.51	670 VV	.128	KI= 705.01	FE=033
70.80	1028 VB	.197	KI= 708.01	FE=035
71.25	92241 VV	17.642	KI= 712.51	FE=036
71.56	8329 VV	1.593	KI= 715.41	FE=037
71.91	5982 BB	1.144	KI= 719.11	FE=038
72.58	9375 BB	1.793	KI= 725.81	FE=039
73.00	13897 BV	2.658	KI= 730.01	FE=040
73.10	23418 VV	4.479	KI= 731.01	FE=041
73.36	9329 VV	1.784	KI= 733.61	FE=042
73.50	8431 VB	1.613	KI= 735.01	FE=043
74.12	9021 BV	1.725	KI= 741.21	FE=044

74.33	2881 VV	.551	KI= 743.31	FE=045
74.54	2694 VB	.515	KI= 745.41	FE=046
74.99	763 BB	.146	KI= 749.91	FE=047

REPORT: 7.22 (CONTINUED) PAGE: 2 ABSOLUTE AMOUNTS

RT	AREA	ms/m1	NAME	
75.39	3411 BB	.652	KI= 753.91	FE=048
75.71	24650 BV	4.714	KI= 757.11	FE=049
75.87	48979 VV	9.368	KI= 758.81	FE=050
76.20	1641 VB	.314	KI= 762.01	FE=051
76.53	103187 BV	19.735	KI= 765.31	FE=052
76.63	40231 VV	7.694	KI= 766.41	FE=053
76.88	26884 VV	5.142	KI= 768.81	FE=054
77.06	14501 VV	2.773	KI= 770.61	FE=055
77.23	117029 VV	22.382	KI= 772.41	FE=056
77.52	4803 VB	.919	KI= 775.21	FE=057
78.10	6558 BV	1.254	KI= 781.01	FE=058
78.31	4029 VV	.771	KI= 783.21	FE=059
78.43	7339 VV	1.404	KI= 784.41	FE=060
78.54	799 VV	.153	KI= 785.41	FE=061
78.69	14981 VB	2.865	KI= 786.91	FE=062
79.44	3437 VV	.657	KI= 794.41	FE=064
79.57	8290 VB	1.586	KI= 795.71	FE=065
80.00	155096 BV	29.663	8800-n-C8-ANE1	FE=066
80.26	537 VB	.103	KI= 802.51	FE=067
80.57	739 BV	.141	KI= 805.71	FE=068
80.71	1407 VV	.269	KI= 807.11	FE=069
80.89	519 VB	.099	KI= 808.91	FE=070
81.23	3229 BV	.618	KI= 812.31	FE=071
81.36	1565 VV	.299	KI= 813.61	FE=072
81.71	5224 VV	.999	KI= 817.01	FE=073
81.81	4674 VV	.894	KI= 818.21	FE=074
82.13	12981 VV	2.483	KI= 821.31	FE=075
82.42	22348 VV	4.274	KI= 824.21	FE=076
82.52	6300 ++	1.205	KI= 825.71	FE=077
82.81	32506 VV	6.217	KI= 828.11	FE=078
83.44	36176 BV	6.919	KI= 834.41	FE=079
83.71	1359 VB	.260	KI= 837.01	FE=080
84.08	1198 BV	.229	KI= 840.81	FE=081
84.27	11895 VV	2.275	KI= 842.71	FE=082
84.43	3396 VV	.649	KI= 844.21	FE=083
84.62	1433 VV	.274	KI= 846.21	FE=084
84.82	719 VB	.137	KI= 848.21	FE=085
85.28	988 BV	.169	KI= 852.81	FE=087
85.44	26449 VV	5.059	KI= 854.41	FE=088
85.61	10082 VV	1.928	KI= 856.11	FE=089
86.00	6197 VV	1.185	KI= 860.01	FE=090
86.21	47233 VV	9.034	KI= 862.21	FE=091
86.38	31283 VV	5.983	KI= 863.81	FE=092
86.50	36010 VV	6.887	KI= 865.01	FE=093
86.75	837 VB	.160	KI= 867.41	FE=094
86.95	7344 BV	1.405	KI= 869.51	FE=095
87.12	40608 VV	7.766	KI= 871.21	FE=096
87.31	1653 VB	.316	KI= 873.11	FE=097
87.71	2322 BV	.444	KI= 877.11	FE=098
88.00	16570 VV	3.169	KI= 880.01	FE=099
88.15	6426 VV	1.229	KI= 881.61	FE=100
88.45	20997 VV	4.016	KI= 884.51	FE=102
88.73	1646 VB	.315	KI= 887.41	FE=103

89.09	1460 BV	.279	KI= 890.91	FE=104
89.26	824 VV	.158	KI= 892.61	FE=105
89.46	2364 VV	.452	KI= 894.61	FE=106

REPORT: 7.22 (CONTINUED) PAGE: 3 ABSOLUTE AMOUNTS

RT	AREA	ms/ml	NAME	
89.59	2304 VV	.441	KI= 895.91	FE=107
89.76	4588 VV	.878	KI= 897.61	FE=108
90.00	92413 VV	17.674	\$900-n-C9-ANE1	FE=109
90.13	756 VB	.145	KI= 901.31	FE=110
90.84	6545 BV	1.252	KI= 908.41	FE=112
91.08	3850 VB	.736	KI= 910.81	FE=113
91.39	2051 BV	.392	KI= 913.91	FE=114
91.53	1641 VV	.314	KI= 915.41	FE=115
91.79	9214 VV	1.762	KI= 917.71	FE=116
92.00	2564 VV	.490	KI= 920.11	FE=117
92.26	12322 VV	2.357	KI= 922.61	FE=118
92.47	6797 VV	1.300	KI= 924.71	FE=119
92.91	10281 VV	1.966	KI= 929.11	FE=120
93.35	22647 VV	4.331	KI= 933.51	FE=122
93.95	17165 VV	3.283	KI= 939.41	FE=123
94.53	8016 VV	1.533	KI= 945.31	FE=125
94.74	7281 VV	1.393	KI= 947.41	FE=126
95.21	4675 VV	.894	KI= 952.01	FE=127
95.35	8297 VV	1.387	KI= 953.51	FE=128
95.58	23100 VV	4.418	KI= 955.81	FE=129
95.68	7612 VV	1.456	KI= 956.81	FE=130
96.05	4613 VV	.882	KI= 960.51	FE=131
96.21	24681 VV	4.720	KI= 962.11	FE=132
96.47	11912 VV	2.278	KI= 964.71	FE=133
96.74	2788 BV	.533	KI= 967.41	FE=135
97.09	13040 VV	2.494	KI= 970.81	FE=136
97.27	8641 VV	1.653	KI= 972.71	FE=137
97.49	566 VV	.108	KI= 974.91	FE=138
97.69	8183 VV	1.565	KI= 976.91	FE=139
97.92	7379 VV	1.411	KI= 979.21	FE=140
98.17	2919 VV	.558	KI= 981.71	FE=142
98.32	1163 VV	.222	KI= 983.31	FE=143
98.62	40786 VV	7.801	KI= 986.21	FE=144
98.89	4594 VV	.879	KI= 989.01	FE=145
99.35	5288 VV	1.011	KI= 993.51	FE=146
99.53	1623 VV	.310	KI= 995.31	FE=147
99.68	1326 VV	.254	KI= 996.81	FE=148
100.00	74820 VV	14.310	\$1000-n-C10-ANE1	FE=149
100.39	3959 VB	.757	KI=1003.91	FE=150
100.89	2434 BV	.465	KI=1009.01	FE=151
101.18	531 VV	.102		
101.39	21753 VV	4.160	KI=1013.91	FE=152
101.70	8262 VV	1.580	KI=1017.01	FE=153
101.92	2802 VV	.536	KI=1019.31	FE=154
102.01	4011 VV	.767	KI=1020.11	FE=155
102.29	17275 VV	3.304	KI=1022.91	FE=156
102.58	12569 VV	2.404	KI=1025.81	FE=157
102.84	8609 VV	1.647	KI=1028.41	FE=158
103.16	5575 VV	1.066	KI=1031.61	FE=159
103.33	2229 VV	.426	KI=1033.41	FE=160
103.46	4682 VV	.896	KI=1034.61	FE=161
103.66	2217 VV	.424	KI=1036.61	FE=162
103.85	5024 VV	.961	KI=1038.51	FE=163

104.06	1489 VV	.285	KI=1040.61	FE=164
104.32	8529 VV	1.631	KI=1043.21	FE=165
104.47	3341 VV	.639	KI=1044.71	FE=166

REPORT: 7.22 (CONTINUED) PAGE: 4 ABSOLUTE AMOUNTS

RT	AREA	ms/m1	NAME	
104.64	13268 VV	2.538	KI=1046.41	FE=167
104.94	5265 VV	1.007	KI=1049.41	FE=168
105.06	8487 VV	1.623	KI=1050.61	FE=169
105.38	10556 VV	2.019	KI=1053.81	FE=170
105.52	2543 VV	.486	KI=1055.31	FE=171
105.79	9084 VV	1.737	KI=1057.91	FE=173
106.08	12550 VV	2.400	KI=1060.81	FE=174
106.46	14265 VV	2.728	KI=1064.61	FE=175
106.62	3483 VV	.666	KI=1066.21	FE=176
107.06	18570 VV	3.552	KI=1070.61	FE=177
107.27	10455 VV	2.000	KI=1072.81	FE=178
107.90	17833 VV	3.411	KI=1079.01	FE=179
108.16	4786 VV	.915	KI=1081.61	FE=180
108.43	5634 VV	1.078	KI=1084.31	FE=181
108.71	3408 VV	.2	KI=1087.21	FE=182
108.94	2634 VV	.504	KI=1089.41	FE=183
109.08	2966 VV	.567	KI=1090.81	FE=184
109.38	1467 VV	.281	KI=1093.81	FE=185
109.59	5306 VV	1.015	KI=1096.01	FE=186
110.00	89668 VV	17.150	\$1100-n-C11-ANE	FE=187
110.45	2834 VV	.542	KI=1104.41	FE=189
110.66	591 VV	.113	KI=1106.61	FE=190
110.84	5976 VV	1.143	KI=1108.41	FE=191
111.03	1833 VV	.351	KI=1110.31	FE=192
111.25	11318 VV	2.165	KI=1112.61	FE=193
111.57	9839 VV	1.882	KI=1115.81	FE=194
111.77	4571 VV	.874	KI=1117.71	FE=195
111.97	695 VV	.133	KI=1119.71	FE=196
112.34	1594 BV	.305	KI=1123.41	FE=198
112.70	6074 VV	1.162	KI=1127.01	FE=199
112.94	8886 VV	1.699	KI=1129.41	FE=200
113.26	524 VB	.100	KI=1132.71	FE=201
113.50	1199 BV	.229	KI=1135.01	FE=203
113.71	866 VV	.166	KI=1137.11	FE=204
113.97	5489 VV	1.050	KI=1139.71	FE=205
114.10	4727 VV	.904	KI=1141.01	FE=206
114.40	8427 VV	1.612	KI=1144.01	FE=207
114.83	4274 VV	.817	KI=1148.31	FE=208
114.98	1857 VV	.355	KI=1149.81	FE=209
115.26	7384 VV	1.412	KI=1152.61	FE=210
115.50	4145 VV	.793	KI=1155.01	FE=211
115.61	8671 VV	1.658	KI=1156.11	FE=212
115.80	1207 VV	.231	KI=1158.01	FE=213
115.98	8445 VV	1.615	KI=1159.81	FE=214
116.17	2277 VV	.436	KI=1161.81	FE=215
116.42	15815 VV	3.025	KI=1164.21	FE=216
117.04	22925 VV	4.384	KI=1170.41	FE=217
117.58	3342 VV	.639	KI=1175.91	FE=219
117.96	4319 VV	.826	KI=1179.71	FE=220
118.15	5206 VV	.996	KI=1181.41	FE=221
118.53	12081 VV	2.311	KI=1185.31	FE=222
118.96	5958 VV	1.139	KI=1189.61	FE=223
119.15	4854 VV	.928	KI=1191.51	FE=224

119.39	6556 VV	1.254	KI=1193.91	FE=225
120.00	72724 VV	13.909	*1200-n-C12-ANE	FE=227
120.34	3368 VV	.644	KI=1203.41	FE=228

REPORT: 7.22 (CONTINUED) PAGE: 5 ABSOLUTE AMOUNTS

RT	AREA	mg/ml	NAME	
120.56	3314 VV	.634	KI=1205.61	FE=229
121.10	5509 VV	1.054	KI=1210.91	FE=231
121.42	24112 VV	4.612	KI=1214.21	FE=232
121.81	4912 VV	.939	KI=1218.21	FE=233
122.18	3087 VV	.590	KI=1221.71	FE=235
122.44	2088 VV	.399	KI=1224.31	FE=236
122.79	5628 VV	1.076	KI=1227.81	FE=237
123.38	11450 VV	2.190	KI=1233.91	FE=238
123.87	7101 VV	1.358	KI=1238.61	FE=239
124.17	3328 VV	.637	KI=1241.71	FE=240
124.54	2592 VV	.496	KI=1245.41	FE=241
124.86	4732 VV	.905	KI=1248.51	FE=242
125.28	6520 VV	1.247	KI=1252.81	FE=243
125.48	9723 VV	1.860	KI=1254.81	FE=244
125.93	7507 VV	1.436	KI=1259.31	FE=245
126.40	9739 VV	1.863	KI=1264.01	FE=246
126.76	3599 VV	.688	KI=1267.61	FE=247
127.03	6540 VV	1.251	KI=1270.21	FE=248
127.32	19729 VV	3.773	KI=1273.11	FE=249
128.26	10616 BV	2.030	KI=1282.71	FE=253
128.57	1813 VV	.347	KI=1285.61	FE=254
128.85	577 VV	.110	KI=1288.31	FE=255
129.43	2131 BV	.408	KI=1294.21	FE=256
130.00	61407 VV	11.744	*1300-n-C13-ANE	FE=257
130.96	3257 BV	.623	KI=1309.61	FE=259
131.17	2245 VB	.429	KI=1311.51	FE=260
131.80	3552 BV	.679	KI=1318.01	FE=262
132.33	1458 VV	.279	KI=1323.11	FE=263
132.80	3454 VV	.661	KI=1328.01	FE=264
133.34	2000 VV	.383	KI=1333.41	FE=265
133.84	2770 BV	.530	KI=1338.41	FE=266
134.23	1047 VV	.200	KI=1342.21	FE=267
134.76	1006 VV	.192	KI=1347.51	FE=269
135.12	4386 VV	.839	KI=1351.11	FE=270
135.40	2199 VV	.421	KI=1354.01	FE=271
135.89	3783 VB	.724	KI=1358.91	FE=272
136.40	6916 BB	1.323	KI=1364.01	FE=273
137.03	3580 BV	.685	KI=1370.31	FE=274
137.67	9993 BB	1.911	KI=1376.71	FE=275
138.29	1856 BB	.355	KI=1383.01	FE=276
138.85	1614 BV	.309	KI=1388.61	FE=277
139.34	6479 VV	1.239	KI=1393.41	FE=278
140.00	29058 BV	5.558	*1400-n-C14-ANE	FE=279
140.40	1381 VV	.264	KI=1404.01	FE=280
140.78	4556 VV	.871	KI=1407.91	FE=281
141.10	4357 VV	.833	KI=1411.11	FE=282
141.35	1164 VV	.223	KI=1413.61	FE=283
141.60	1140 VB	.218		
142.71	2288 BV	.438	KI=1427.21	FE=286
143.03	706 VB	.135	KI=1430.31	FE=287
143.41	557 BB	.107	KI=1434.11	FE=288
144.31	1357 BV	.260	KI=1443.21	FE=289
145.04	869 VV	.166	KI=1450.51	FE=291

145.35	1203 VV	.230	KI=1453.4:	FE=292
145.88	1620 VV	.310	KI=1458.7:	FE=293
146.27	7022 VB	1.343	KI=1462.7:	FE=294

REPORT: 7.22 (CONTINUED) PAGE: 6 ABSOLUTE AMOUNTS

RT	AREA	mg/ml	NAME
147.08	1530 BB	.293	KI=1470.7: FE=295
150.00	8346 BB	1.596	\$1500-n-C15-ANE:FE=296
160.00	1330 BB	.254	\$1600-n-C16-ANE:FE=297
177.16	52286 BB		&ANTH-d10(IS)(KI=1772)
211.80	4562 BB	.872	\$2118-(IMPURITY #3)

TOTAL AREA = 20338780 TOTAL mg/ml = 658.520

PROCESSED DATA FILE: BKP162 RAW DATA FILE: DFR162

REPORT: 8.42 CHANNEL: 12 ABSOLUTE AMOUNTS

SAMPLE: 607JP4MEC02 INJECTED AT 8:13:53 ON MAY 24, 1983

ISTD METHOD: DFABME BTL: 13

ACTUAL RUN TIME: 540.000 MINUTES

ISTD-RATIO: 10.000 mg/ml STD-AMT: 10.0000 SAMP-AMT: 1.0000

RT	AREA	mg/ml	NAME	
37.74	646 VV	.116	KI= 377.21	FE=001
38.81	2399 VV	.429	KI= 388.01	FE=002
40.00	7594 VV	1.359	\$400-n-C4-ANE1	FE=003
45.74	33257 VV	3.953	KI= 457.61	FE=004
50.00	50615 VV	9.061	\$500-n-C5-ANE1	FE=005
50.70	1009 VV	.181	KI= 507.01	FE=006
51.43	1169 VV	.209	KI= 514.31	FE=008
52.01	4469 VV	.800	KI= 520.11	FE=009
52.66	17987276 ++	0.000	CH2CL2 SOLVENT	
54.94	7936 VV	1.421	KI= 549.71	FE=010
55.20	9633 VV	1.724	KI= 552.41	FE=011
55.81	1118 BV	.200	IMPURITY #1(KI= 558.61	
56.00	58420 VV	10.458	KI= 560.41	FE=012
57.68	40405 VV	7.233	KI= 577.31	FE=013
60.00	98952 VV	17.714	\$600-n-C6-ANE1	FE=014
61.12	680 BB	.122	KI= 611.21	FE=016
61.40	1210 BV	.217	KI= 613.91	FE=017
62.48	52494 VV	9.397	KI= 624.81	FE=018
62.72	679 VB	.122	KI= 627.31	FE=019
63.24	10125 BV	1.813	KI= 632.41	FE=020
65.29	5859 BV	1.049	KI= 653.01	FE=021
65.60	49745 BB	8.905	KI= 656.11	FE=022
65.88	21015 BB	3.762	KI= 658.81	FE=023
66.91	29375 VV	3.258	KI= 669.01	FE=024
67.05	70773 VB	12.669	KI= 670.41	FE=025
67.45	4308 BV	.771	IMPURITY #2(KI= 674.41	
67.76	85838 VV	15.366	KI= 677.41	FE=026
67.99	15284 VV	2.736	KI= 679.81	FE=027
68.21	14645 VV	2.622	KI= 682.01	FE=028
68.47	26588 VV	4.760	KI= 684.61	FE=029
68.59	8274 VB	1.481	KI= 685.81	FE=030
70.00	156508 BV	28.017	\$700-n-C7-ANE1	FE=031
70.18	995 VV	.178	KI= 701.81	FE=032
70.50	642 BV	.115	KI= 705.01	FE=033
70.81	759 BB	.136	KI= 708.01	FE=035
71.25	98970 BV	17.717	KI= 712.51	FE=036
71.56	8965 VB	1.605	KI= 715.61	FE=037
71.91	6408 BB	1.147	KI= 719.11	FE=038
72.57	10041 BB	1.797	KI= 725.81	FE=039
73.00	14916 BV	2.670	KI= 730.01	FE=040
73.09	25136 VV	4.500	KI= 731.01	FE=041
73.36	10022 VV	1.794	KI= 733.61	FE=042
73.50	9038 VB	1.618	KI= 735.01	FE=043



74.12	9672 BV	1.731	KI= 741.21	FE=044
74.33	3106 VV	.556	KI= 743.31	FE=045
74.53	2870 VB	.514	KI= 745.41	FE=046

REPORT: 8.42 (CONTINUED) PAGE: 2 ABSOLUTE AMOUNTS

RT	AREA	ms/ml	NAME	
74.99	943 BB	.169	KI= 749.91	FE=047
75.38	3723 BV	.666	KI= 753.91	FE=048
75.71	26565 VV	4.756	KI= 757.11	FE=049
75.87	52640 VV	9.423	KI= 758.81	FE=050
76.19	1744 VB	.312	KI= 762.01	FE=051
76.53	111046 BV	19.879	KI= 765.31	FE=052
76.64	43168 VV	7.728	KI= 766.41	FE=053
76.88	28891 VV	5.172	KI= 768.81	FE=054
77.06	15591 VV	2.791	KI= 770.61	FE=055
77.24	125839 VV	22.527	KI= 772.41	FE=056
77.52	5162 VB	.924	KI= 775.21	FE=057
78.10	7021 BV	1.257	KI= 781.01	FE=058
78.31	4309 VV	.771	KI= 783.21	FE=059
78.43	8719 VV	1.561	KI= 784.41	FE=060
78.68	16018 VB	2.867	KI= 786.91	FE=061
79.10	522 BV	.093	KI= 791.11	FE=062
79.44	3711 VV	.664	KI= 794.41	FE=064
79.56	8777 VV	1.571	KI= 795.71	FE=065
80.00	166851 BV	29.869	*800-n-C8-ANE	FE=066
80.25	590 VB	.106	KI= 802.51	FE=067
80.56	781 BV	.140	KI= 805.71	FE=068
80.71	1504 VV	.269	KI= 807.11	FE=069
80.88	542 VB	.097	KI= 808.91	FE=070
81.23	3457 BV	.619	KI= 812.31	FE=071
81.36	1651 VB	.296	KI= 813.61	FE=072
81.70	5512 BV	.987	KI= 817.01	FE=073
81.81	4488 VV	.803	KI= 818.21	FE=074
82.13	12859 VV	2.302	KI= 821.31	FE=075
82.41	18428 VV	3.299	KI= 824.21	FE=076
82.60	1019 BV	.182	KI= 825.71	FE=077
82.81	33529 VV	6.002	KI= 828.11	FE=078
83.44	38927 BV	6.968	KI= 834.41	FE=079
83.70	1459 VB	.261	KI= 837.01	FE=080
84.08	1300 BV	.233	KI= 840.81	FE=081
84.26	12781 VV	2.288	KI= 842.71	FE=082
84.42	3648 VV	.653	KI= 844.21	FE=083
84.62	1524 VV	.273	KI= 846.21	FE=084
84.82	769 VB	.138	KI= 848.21	FE=085
85.09	521 BB	.093	KI= 850.91	FE=086
85.28	1061 BV	.190	KI= 852.81	FE=087
85.44	28462 VV	5.095	KI= 854.41	FE=088
85.61	10835 VV	1.940	KI= 856.11	FE=089
86.00	6820 VV	1.221	KI= 860.01	FE=090
86.21	51743 VV	9.263	KI= 862.21	FE=091
86.38	33484 VV	5.994	KI= 863.81	FE=092
86.50	39802 VV	7.125	KI= 865.01	FE=093
86.74	2208 VV	.395	KI= 867.41	FE=094
86.95	9167 VV	1.641	KI= 869.51	FE=095
87.12	44746 VV	8.010	KI= 871.21	FE=096
87.31	2371 VV	.424	KI= 873.11	FE=097
87.71	2545 VV	.456	KI= 877.11	FE=098
87.99	17806 VV	3.188	KI= 880.01	FE=099
88.15	6996 VV	1.252	KI= 881.61	FE=100

88.44	22625 VV	4.050	KI= 884.5:	FE=102
88.73	1783 VB	.319	KI= 887.4:	FE=103
89.08	1600 BV	.286	KI= 890.9:	FE=104

REPORT: 8.42 (CONTINUED) PAGE: 3 ABSOLUTE AMOUNTS

RT	AREA	ms/ml	NAME	
89.26	926 VV	.166	KI= 892.6:	FE=105
89.45	2632 VV	.471	KI= 894.6:	FE=106
89.59	2553 VV	.457	KI= 895.9:	FE=107
89.76	5101 VV	.913	KI= 897.6:	FE=108
90.00	100743 VV	18.034	\$900-n-C9-ANE:	FE=109
90.84	7016 VV	1.256	KI= 908.4:	FE=112
91.08	4198 VB	.751	KI= 910.8:	FE=113
91.39	2222 BV	.398	KI= 913.9:	FE=114
91.53	1736 VV	.311	KI= 915.4:	FE=115
91.76	9954 VV	1.782	KI= 917.7:	FE=116
92.00	2761 VV	.494	KI= 920.1:	FE=117
92.26	13267 VV	2.375	KI= 922.6:	FE=118
92.47	7349 VV	1.316	KI= 924.7:	FE=119
92.91	11121 VV	1.991	KI= 929.1:	FE=120
93.35	24460 VV	4.379	KI= 933.5:	FE=122
93.94	18555 VV	3.322	KI= 939.4:	FE=123
94.52	8660 VV	1.550	KI= 945.3:	FE=125
94.74	7875 VB	1.410	KI= 947.4:	FE=126
95.20	5177 BV	.927	KI= 952.0:	FE=127
95.35	9328 VV	1.670	KI= 953.5:	FE=128
95.57	25208 VV	4.513	KI= 955.8:	FE=129
95.68	9586 VV	1.716	KI= 956.8:	FE=130
96.04	6192 VV	1.109	KI= 960.5:	FE=131
96.21	29763 VV	5.328	KI= 962.1:	FE=132
96.47	17536 VV	3.148	KI= 964.7:	FE=133
96.60	2022 VV	.362	KI= 966.1:	FE=134
96.74	7777 VV	1.392	KI= 967.4:	FE=135
97.08	14730 VV	2.637	KI= 970.8:	FE=136
97.27	9895 VV	1.771	KI= 972.7:	FE=137
97.49	934 VV	.167	KI= 974.9:	FE=138
97.69	9417 VV	1.686	KI= 976.9:	FE=139
97.92	8543 VV	1.529	KI= 979.2:	FE=140
98.16	3415 VV	.611	KI= 981.7:	FE=142
98.33	1557 VV	.279	KI= 983.3:	FE=143
98.62	44456 VV	7.958	KI= 986.2:	FE=144
98.90	5330 VV	.954	KI= 989.0:	FE=145
99.35	6129 VV	1.097	KI= 993.5:	FE=146
99.52	1921 VV	.344	KI= 995.3:	FE=147
99.67	1498 VV	.268	KI= 996.8:	FE=148
100.00	80933 VV	14.488	\$1000-n-C10-ANE:	FE=149
100.38	4322 VB	.774	KI=1003.9:	FE=150
100.89	2038 BV	.365	KI=1009.0:	FE=151
101.38	20696 VV	3.705	KI=1013.9:	FE=152
101.70	5419 VV	.970	KI=1017.0:	FE=153
102.01	989 BV	.177	KI=1020.1:	FE=155
102.28	16654 VV	2.981	KI=1022.9:	FE=156
102.57	13075 VV	2.341	KI=1025.8:	FE=157
102.83	8900 VV	1.593	KI=1028.4:	FE=158
103.16	5643 VV	1.010	KI=1031.6:	FE=159
103.33	2324 VV	.416	KI=1033.4:	FE=160
103.45	4764 VV	.853	KI=1034.6:	FE=161
103.65	2224 VV	.398	KI=1036.6:	FE=162
103.85	5205 VV	.932	KI=1038.5:	FE=163

104.06	1432 VV	.256	KI=1040.6:	FE=164
104.32	9019 VV	1.614	KI=1043.2:	FE=165
104.47	3466 VV	.620	KI=1044.7:	FE=166

REPORT: 8.42 (CONTINUED) PAGE: 4 ABSOLUTE AMOUNTS

RT	AREA	ms/ml	NAME	
104.63	14119 VV	2.528	KI=1046.4:	FE=167
104.94	5845 VV	1.046	KI=1049.4:	FE=168
105.06	8705 VV	1.558	KI=1050.6:	FE=169
105.37	11253 VV	2.014	KI=1053.8:	FE=170
105.52	1770 VV	.317	KI=1055.3:	FE=171
105.62	940 VV	.168		
105.79	9715 VV	1.739	KI=1057.9:	FE=173
106.08	13547 VV	2.425	KI=1060.8:	FE=174
106.45	15316 VV	2.742	KI=1064.6:	FE=175
106.62	3767 VV	.674	KI=1066.2:	FE=176
107.06	20054 VV	3.590	KI=1070.6:	FE=177
107.27	11157 VV	1.997	KI=1072.8:	FE=178
107.90	19191 VV	3.436	KI=1079.0:	FE=179
108.16	5110 VV	.915	KI=1081.6:	FE=180
108.43	5953 VV	1.066	KI=1084.3:	FE=181
108.71	3725 VV	.667	KI=1087.2:	FE=182
108.94	2884 VV	.516	KI=1089.4:	FE=183
109.07	3097 VV	.554	KI=1090.8:	FE=184
109.39	1559 VV	.279	KI=1093.8:	FE=185
109.59	5668 VV	1.015	KI=1096.0:	FE=186
110.00	96547 VV	17.283	\$1100-n-C11-ANE:	FE=187
110.44	3009 VV	.539	KI=1104.4:	FE=189
110.66	623 VV	.112	KI=1106.6:	FE=190
110.84	6458 VV	1.156	KI=1108.4:	FE=191
111.02	1911 VV	.342	KI=1110.3:	FE=192
111.25	12288 VV	2.200	KI=1112.6:	FE=193
111.57	10614 VV	1.900	KI=1115.8:	FE=194
111.77	4740 VV	.849	KI=1117.7:	FE=195
111.97	749 VV	.134	KI=1119.7:	FE=196
112.34	1745 BV	.312	KI=1123.4:	FE=198
112.70	6571 VV	1.176	KI=1127.0:	FE=199
112.94	9585 VV	1.716	KI=1129.4:	FE=200
113.26	714 VV	.128	KI=1132.7:	FE=201
113.50	1286 BV	.230	KI=1135.0:	FE=203
113.72	947 VV	.170	KI=1137.1:	FE=204
113.97	6080 VV	1.088	KI=1139.7:	FE=205
114.09	4973 VV	.890	KI=1141.0:	FE=206
114.40	9101 VV	1.629	KI=1144.0:	FE=207
114.83	4535 VV	.812	KI=1148.3:	FE=208
114.97	1988 VV	.356	KI=1149.8:	FE=209
115.25	7797 VV	1.396	KI=1152.6:	FE=210
115.49	4327 VV	.775	KI=1155.0:	FE=211
115.61	9194 VV	1.646	KI=1156.1:	FE=212
115.80	1157 VV	.207	KI=1158.0:	FE=213
115.98	8849 VV	1.584	KI=1159.8:	FE=214
116.17	2218 VV	.397	KI=1161.8:	FE=215
116.41	16351 VV	2.927	KI=1164.2:	FE=216
117.04	15188 VV	2.719	KI=1170.4:	FE=217
117.12	8136 VV	1.456	KI=1171.4:	FE=218
117.59	1640 VB	.294	KI=1175.9:	FE=219
117.96	3578 BV	.641	KI=1179.7:	FE=220
118.14	4886 VV	.875	KI=1181.4:	FE=221
118.53	11528 VV	2.064	KI=1185.3:	FE=222

118.96	5688 VV	1.018	KI=1189.61	FE=223
119.15	4871 VV	.872	KI=1191.51	FE=224
119.39	6639 VV	1.188	KI=1193.91	FE=225

REPORT: 8.42 (CONTINUED) PAGE: 5 ABSOLUTE AMOUNTS

RT	AREA	ms/ml	NAME	
120.00	77616 VV	13.894	\$1200-n-C12-ANE	FE=227
120.34	2765 VV	.495	KI=1200.11	FE=228
120.55	1703 VV	.305	KI=1200.11	FE=229
121.09	3755 BV	.672	KI=1210.91	FE=231
121.41	23398 VV	4.189	KI=1214.21	FE=232
121.82	1633 VV	.292	KI=1218.21	FE=233
122.17	1516 BV	.271	KI=1221.71	FE=235
122.43	1794 VV	.321	KI=1224.31	FE=236
122.78	5772 VV	1.033	KI=1227.81	FE=237
123.39	12315 VV	2.205	KI=1233.91	FE=238
123.86	7583 VV	1.357	KI=1238.61	FE=239
124.17	3594 VV	.643	KI=1241.71	FE=240
124.54	2767 VV	.495	KI=1245.41	FE=241
124.84	5056 VV	.905	KI=1248.51	FE=242
125.28	6947 VV	1.244	KI=1252.81	FE=243
125.48	10509 VV	1.881	KI=1254.81	FE=244
125.92	7990 VV	1.430	KI=1259.31	FE=245
126.40	10455 VV	1.872	KI=1264.01	FE=246
126.76	3804 VV	.681	KI=1267.61	FE=247
127.02	7024 VV	1.257	KI=1270.21	FE=248
127.31	21112 VV	3.779	KI=1273.11	FE=249
128.26	11383 BV	2.038	KI=1282.71	FE=253
128.56	1936 VV	.347	KI=1285.61	FE=254
129.42	2384 BV	.427	KI=1294.21	FE=256
130.00	65670 BV	11.756	\$1300-n-C13-ANE	FE=257
130.95	3602 BV	.645	KI=1309.61	FE=259
131.15	2355 BV	.422	KI=1311.51	FE=260
131.62	1236 BV	.221		
131.80	6622 VV	1.185	KI=1318.01	FE=262
132.31	2275 VV	.407	KI=1323.11	FE=263
132.80	3793 VV	.679	KI=1328.01	FE=264
133.34	2902 VV	.519	KI=1333.41	FE=265
133.84	6072 VV	1.087	KI=1338.41	FE=266
134.21	1806 VV	.323	KI=1342.21	FE=267
134.43	645 BV	.116	KI=1344.51	FE=268
134.74	1042 BV	.187	KI=1347.51	FE=269
135.10	4662 VV	.835	KI=1351.11	FE=270
135.41	2929 VV	.417	KI=1354.01	FE=271
135.88	4304 VV	.771	KI=1358.91	FE=272
136.40	8553 VV	1.531	KI=1364.01	FE=273
137.03	4215 VV	.755	KI=1370.31	FE=274
137.67	10674 BV	1.911	KI=1376.71	FE=275
138.30	2000 BV	.358	KI=1383.01	FE=276
138.85	1728 BV	.309	KI=1388.61	FE=277
139.33	7381 VV	1.321	KI=1393.41	FE=278
140.00	32257 VV	5.775	\$1400-n-C14-ANE	FE=279
140.40	1585 VV	.284	KI=1404.01	FE=280
140.78	4874 VV	.873	KI=1407.91	FE=281
141.09	4546 VV	.814	KI=1411.11	FE=282
141.35	1223 VV	.219	KI=1413.61	FE=283
141.59	1135 BV	.203		
142.21	539 BV	.097	KI=1422.01	FE=285
142.71	1448 BV	.259	KI=1427.21	FE=286

143.01	696 VB	.125	KI=1430.3:	FE=287
143.42	606 BB	.108	KI=1434.1:	FE=288
144.31	1541 BV	.276	KI=1443.2:	FE=289

REPORT: 8.42 (CONTINUED) PAGE: 6 ABSOLUTE AMOUNTS

RT	AREA	ms/m1	NAME	
144.60	701 VV	.126	KI=1446.1:	FE=290
145.35	1077 VV	.193	KI=1453.4:	FE=292
145.86	1767 VV	.316	KI=1458.7:	FE=293
146.26	7452 VB	1.334	KI=1462.7:	FE=294
147.07	1595 BB	.286	KI=1470.7:	FE=295
150.00	8926 BB	1.593	*1500-n-C15-ANE:FE=296	
160.00	1419 BB	.254	*1600-n-C16-ANE:FE=297	
177.16	55861 BB		*ANTH-d10(1S)(KI=1772)	
211.80	4711 BB	.843	*2118-(IMPURITY #3)	

TOTAL AREA = 21947088 TOTAL ms/m1 = 698.863

PROCESSED DATA FILE: BKP163 RAW DATA FILE: DFR163

# STATISTICAL SUMMARY OF MH08 DATA BASE

CONSISTING OF 2 SAMPLES  
CONCENTRATION (mg/ml)

COMPOUND NAME		AVERAGE	RANGE	STANDARD DEVIATION	%REL STANDARD DEVIATION	NUMBER OF SAMPLES
KI= 377.21	FE=001	1.17E-01	3.37E-03	2.38E-03	2.03E+00	2
KI= 388.01	FE=002	4.32E-01	4.63E-03	3.27E-03	7.58E-01	2
\$400-n-C4-ANEI	FE=003	1.36E+00	3.78E-03	2.67E-03	1.97E-01	2
KI= 457.61	FE=004	5.95E+00	6.81E-04	4.81E-04	8.09E-03	2
\$500-n-C5-ANEI	FE=005	9.06E+00	2.33E-04	1.65E-04	1.82E-03	2
KI= 507.01	FE=006	1.55E-01	5.11E-02	3.61E-02	2.33E+01	2
KI= 514.31	FE=008	2.04E-01	1.03E-02	7.28E-03	3.56E+00	2
KI= 520.11	FE=009	7.92E-01	1.55E-02	1.10E-02	1.38E+00	2
CH2CL2 SOLVENT		0.00E+00	0.00E+00	0.00E+00	4.70E+38	2
KI= 549.71	FE=010	1.42E+00	5.40E-03	3.82E-03	2.68E-01	2
KI= 552.41	FE=011	1.73E+00	3.85E-03	2.72E-03	1.58E-01	2
IMPURITY #1(KI= 558.6)		1.50E-01	1.01E-01	7.11E-02	4.74E+01	2
KI= 560.41	FE=012	1.04E+01	2.14E-01	1.51E-01	1.46E+00	2
KI= 577.31	FE=013	7.22E+00	2.42E-02	1.71E-02	2.37E-01	2
\$600-n-C6-ANEI	FE=014	1.77E+01	3.64E-02	2.57E-02	1.45E-01	2
KI= 611.21	FE=016	1.22E-01				1
KI= 613.91	FE=017	2.19E-01	3.92E-03	2.77E-03	1.27E+00	2
KI= 624.81	FE=018	9.39E+00	8.04E-03	5.68E-03	6.05E-02	2
KI= 627.31	FE=019	1.15E-01	1.27E-02	9.00E-03	7.81E+00	2
KI= 632.41	FE=020	1.82E+00	1.70E-02	1.20E-02	6.60E-01	2
KI= 653.01	FE=021	1.05E+00	1.38E-03	9.75E-04	9.29E-02	2
KI= 656.11	FE=022	8.89E+00	3.62E-02	2.56E-02	2.88E-01	2
KI= 658.81	FE=023	3.75E+00	1.76E-02	1.24E-02	3.31E-01	2
KI= 669.01	FE=024	5.24E+00	4.29E-02	3.04E-02	5.80E-01	2
KI= 670.41	FE=025	1.26E+01	4.89E-02	3.45E-02	2.73E-01	2
IMPURITY #2(KI= 674.4)		7.66E-01	1.11E-02	7.86E-03	1.03E+00	2
KI= 677.41	FE=026	1.53E+01	8.10E-02	5.73E-02	3.74E-01	2
KI= 679.81	FE=027	2.73E+00	1.74E-02	1.23E-02	4.52E-01	2
KI= 682.01	FE=028	2.61E+00	1.42E-02	1.15E-02	4.38E-01	2
KI= 684.61	FE=029	4.75E+00	2.82E-02	1.99E-02	4.20E-01	2
KI= 685.81	FE=030	1.48E+00	1.22E-02	8.60E-03	5.83E-01	2
\$700-n-C7-ANEI	FE=031	2.79E+01	1.67E-01	1.18E-01	4.23E-01	2
KI= 701.81	FE=032	1.54E-01	4.78E-02	3.38E-02	2.19E+01	2
KI= 705.01	FE=033	1.22E-01	1.32E-02	9.36E-03	7.70E+00	2
KI= 708.01	FE=035	1.66E-01	6.07E-02	4.29E-02	2.58E+01	2
KI= 712.51	FE=036	1.77E+01	7.54E-02	5.33E-02	3.01E-01	2
KI= 715.61	FE=037	1.60E+00	1.19E-02	8.39E-03	5.25E-01	2
KI= 719.11	FE=038	1.15E+00	3.04E-03	2.15E-03	1.88E-01	2
KI= 725.81	FE=039	1.80E+00	4.44E-03	3.14E-03	1.75E-01	2
KI= 730.01	FE=040	2.66E+00	1.24E-02	8.73E-03	3.28E-01	2
KI= 731.01	FE=041	4.49E+00	2.08E-02	1.47E-02	3.28E-01	2
KI= 733.61	FE=042	1.79E+00	9.88E-03	6.98E-03	3.90E-01	2
KI= 735.01	FE=043	1.62E+00	5.42E-03	3.83E-03	2.37E-01	2
KI= 741.21	FE=044	1.73E+00	6.17E-03	4.36E-03	2.52E-01	2
KI= 743.31	FE=045	5.54E-01	5.00E-03	3.53E-03	6.39E-01	2
KI= 745.41	FE=046	5.15E-01	1.47E-03	1.04E-03	2.01E-01	2
KI= 749.91	FE=047	1.57E-01	2.30E-02	1.62E-02	1.03E+01	2
KI= 753.91	FE=048	6.59E-01	1.41E-02	9.99E-03	1.51E+00	2
KI= 757.11	FE=049	4.73E+00	4.11E-02	2.90E-02	6.13E-01	2
KI= 758.81	FE=050	9.40E+00	5.58E-02	3.95E-02	4.20E-01	2
KI= 762.01	FE=051	3.13E-01	1.52E-03	1.08E-03	3.44E-01	2
KI= 765.31	FE=052	1.98E+01	1.44E-01	1.02E-01	5.14E-01	2
KI= 766.41	FE=053	7.71E+00	3.33E-02	2.36E-02	3.05E-01	2

KI= 768.81	FE=054	5.16E+00	3.02E-02	2.14E-02	4.14E-01	2
KI= 770.61	FE=055	2.78E+00	1.76E-02	1.25E-02	4.48E-01	2
KI= 772.41	FE=056	2.25E+01	1.45E-01	1.02E-01	4.55E-01	2
KI= 775.21	FE=057	9.21E-01	5.48E-03	3.87E-03	4.20E-01	2
KI= 781.01	FE=058	1.26E+00	2.57E-03	1.81E-03	1.44E-01	2
KI= 783.21	FE=059	7.71E-01	8.00E-04	5.65E-04	7.33E-02	2
KI= 784.41	FE=060	1.48E+00	1.57E-01	1.11E-01	7.50E+00	2
KI= 785.41	FE=061	1.53E-01				1
KI= 786.91	FE=062	2.87E+00	2.14E-03	1.51E-03	5.28E-02	2
KI= 791.11	FE=063	9.34E-02				1
KI= 794.41	FE=064	6.61E-01	7.06E-03	4.99E-03	7.55E-01	2
KI= 795.71	FE=065	1.58E+00	1.43E-02	1.01E-02	6.41E-01	2
*800-n-C8-ANE1						
KI= 802.51	FE=066	2.98E+01	2.06E-01	1.45E-01	4.89E-01	2
KI= 805.71	FE=067	1.04E-01	2.96E-03	2.09E-03	2.01E+00	2
KI= 807.11	FE=068	1.41E-01	1.51E-03	1.07E-03	7.60E-01	2
KI= 807.11	FE=069	2.69E-01	6.23E-05	4.41E-05	1.64E-02	2
KI= 808.91	FE=070	9.81E-02	2.21E-03	1.56E-03	1.60E+00	2
KI= 812.31	FE=071	6.18E-01	1.30E-03	9.22E-04	1.49E-01	2
KI= 813.61	FE=072	2.97E-01	3.85E-03	2.72E-03	9.16E-01	2
KI= 817.01	FE=073	9.93E-01	1.25E-02	8.82E-03	8.89E-01	2
KI= 818.21	FE=074	8.49E-01	9.05E-02	6.40E-02	7.54E+00	2
KI= 821.31	FE=075	2.39E+00	1.81E-01	1.28E-01	5.35E+00	2
KI= 824.21	FE=076	3.79E+00	9.75E-01	6.90E-01	1.82E+01	2
KI= 825.71	FE=077	6.94E-01	1.02E+00	7.23E-01	1.04E+02	2
KI= 828.11	FE=078	6.11E+00	2.15E-01	1.52E-01	2.48E+00	2
KI= 834.41	FE=079	6.94E+00	4.97E-02	3.51E-02	5.06E-01	2
KI= 837.01	FE=080	2.61E-01	1.17E-03	8.27E-04	3.17E-01	2
KI= 840.81	FE=081	2.31E-01	3.61E-03	2.55E-03	1.10E+00	2
KI= 842.71	FE=082	2.28E+00	1.28E-02	9.08E-03	3.98E-01	2
KI= 844.21	FE=083	6.51E-01	3.51E-03	2.48E-03	3.81E-01	2
KI= 846.21	FE=084	2.73E-01	1.18E-03	8.36E-04	3.06E-01	2
KI= 848.21	FE=085	1.38E-01	8.10E-05	5.73E-05	4.16E-02	2
KI= 850.91	FE=086	9.33E-02				1
KI= 852.81	FE=087	1.89E-01	9.35E-04	6.61E-04	3.49E-01	2
KI= 854.41	FE=088	5.08E+00	3.66E-02	2.59E-02	5.10E-01	2
KI= 856.11	FE=089	1.93E+00	1.13E-02	7.99E-03	4.13E-01	2
KI= 860.01	FE=090	1.20E+00	3.56E-02	2.52E-02	2.09E+00	2
KI= 862.21	FE=091	9.15E+00	2.29E-01	1.62E-01	1.77E+00	2
KI= 863.81	FE=092	5.99E+00	1.10E-02	7.80E-03	1.30E-01	2
KI= 865.01	FE=093	7.01E+00	2.38E-01	1.68E-01	2.40E+00	2
KI= 867.41	FE=094	2.78E-01	2.35E-01	1.66E-01	5.99E+01	2
KI= 869.51	FE=095	1.52E+00	2.36E-01	1.67E-01	1.10E+01	2
KI= 871.21	FE=096	7.89E+00	2.44E-01	1.72E-01	2.18E+00	2
KI= 873.11	FE=097	3.70E-01	1.08E-01	7.65E-02	2.07E+01	2
KI= 877.11	FE=098	4.50E-01	1.16E-02	8.19E-03	1.82E+00	2
KI= 880.01	FE=099	3.18E+00	1.85E-02	1.31E-02	4.12E-01	2
KI= 881.61	FE=100	1.24E+00	2.34E-02	1.65E-02	1.33E+00	2
KI= 884.51	FE=102	4.03E+00	3.45E-02	2.44E-02	6.04E-01	2
KI= 887.41	FE=103	3.17E-01	4.52E-03	3.19E-03	1.01E+00	2
KI= 890.91	FE=104	2.83E-01	7.23E-03	5.11E-03	1.81E+00	2
KI= 892.61	FE=105	1.62E-01	8.21E-03	5.80E-03	3.59E+00	2
KI= 894.61	FE=106	4.62E-01	1.91E-02	1.35E-02	2.92E+00	2
KI= 895.91	FE=107	4.49E-01	1.63E-02	1.15E-02	2.57E+00	2
KI= 897.61	FE=108	8.95E-01	3.55E-02	2.51E-02	2.81E+00	2
*900-n-C9-ANE1						
KI= 901.31	FE=109	1.79E+01	3.60E-01	2.55E-01	1.43E+00	2
KI= 908.41	FE=110	1.45E-01				1
KI= 910.81	FE=112	1.25E+00	4.10E-03	2.90E-03	2.31E-01	2
KI= 913.91	FE=113	7.44E-01	1.52E-02	1.07E-02	1.44E+00	2
KI= 915.41	FE=114	3.95E-01	5.36E-03	3.79E-03	9.59E-01	2
KI= 917.71	FE=115	3.12E-01	3.13E-03	2.21E-03	7.08E-01	2
	FE=116	1.77E+00	1.98E-02	1.40E-02	7.91E-01	2

KI= 920.11	FE=117	4.92E-01	3.76E-03	2.66E-03	5.40E-01	2
KI= 922.61	FE=118	2.37E+00	1.85E-02	1.31E-02	5.53E-01	2
KI= 924.71	FE=119	1.31E+00	1.57E-02	1.11E-02	8.46E-01	2
KI= 929.11	FE=120	1.98E+00	2.46E-02	1.74E-02	8.78E-01	2
KI= 933.51	FE=122	4.36E+00	4.73E-02	3.34E-02	7.68E-01	2
KI= 939.41	FE=123	3.30E+00	3.89E-02	2.74E-02	8.30E-01	2
KI= 945.31	FE=125	1.54E+00	1.71E-02	1.21E-02	7.83E-01	2
KI= 947.41	FE=126	1.40E+00	1.72E-02	1.21E-02	8.66E-01	2
KI= 952.01	FE=127	9.10E-01	3.26E-02	2.31E-02	2.53E+00	2
KI= 953.51	FE=128	1.63E+00	8.30E-02	5.87E-02	3.60E+00	2
KI= 955.81	FE=129	4.47E+00	9.46E-02	6.69E-02	1.50E+00	2
KI= 956.81	FE=130	1.59E+00	2.60E-01	1.84E-01	1.16E+01	2
KI= 960.51	FE=131	9.95E-01	2.26E-01	1.60E-01	1.61E+01	2
KI= 967.11	FE=132	5.02E+00	6.08E-01	4.30E-01	8.55E+00	2
KI= 964.71	FE=133	2.71E+00	8.70E-01	6.15E-01	2.27E+01	2
KI= 966.11	FE=134	3.62E-01				1
KI= 967.41	FE=135	9.63E-01	8.59E-01	6.07E-01	6.31E+01	2
KI= 970.81	FE=136	2.57E+00	1.43E-01	1.01E-01	3.94E+00	2
KI= 972.71	FE=137	1.71E+00	1.19E-01	8.40E-02	4.21E+00	2
KI= 974.91	FE=138	1.38E-01	5.89E-02	4.16E-02	3.02E+01	2
KI= 976.91	FE=139	1.63E+00	1.21E-01	8.54E-02	5.25E+00	2
KI= 979.21	FE=140	1.47E+00	1.18E-01	8.35E-02	5.68E+00	2
KI= 981.71	FE=142	5.85E-01	5.30E-02	3.75E-02	6.41E+00	2
KI= 983.31	FE=143	2.51E-01	5.63E-02	3.98E-02	1.59E+01	2
KI= 986.21	FE=144	7.88E+00	1.58E-01	1.11E-01	1.41E+00	2
KI= 989.01	FE=145	9.16E-01	7.55E-02	5.34E-02	5.82E+00	2
KI= 993.51	FE=146	1.05E+00	8.58E-02	6.06E-02	5.75E+00	2
KI= 995.31	FE=147	3.27E-01	3.35E-02	2.37E-02	7.25E+00	2
KI= 996.81	FE=148	2.61E-01	1.45E-02	1.03E-02	3.93E+00	2
\$1000-n-C10-ANE	FE=149	1.44E+01	1.78E-01	1.26E-01	8.77E-01	2
KI=1003.91	FE=150	7.65E-01	1.64E-02	1.16E-02	1.52E+00	2
KI=1009.01	FE=151	4.15E-01	1.01E-01	7.12E-02	1.71E+01	2
KI=1013.91	FE=152	3.93E+00	4.55E-01	3.22E-01	8.19E+00	2
KI=1017.01	FE=153	1.28E+00	6.10E-01	4.31E-01	3.38E+01	2
KI=1019.31	FE=154	5.36E-01				1
KI=1020.11	FE=155	4.72E-01	5.90E-01	4.17E-01	8.84E+01	2
KI=1022.91	FE=156	3.14E+00	3.22E-01	2.28E-01	7.26E+00	2
KI=1025.81	FE=157	2.37E+00	6.33E-02	4.48E-02	1.89E+00	2
KI=1028.41	FE=158	1.62E+00	5.34E-02	3.78E-02	2.33E+00	2
KI=1031.61	FE=159	1.04E+00	5.60E-02	3.96E-02	3.81E+00	2
KI=1033.41	FE=160	4.21E-01	1.04E-02	7.32E-03	1.74E+00	2
KI=1034.61	FE=161	8.74E-01	4.26E-02	3.01E-02	3.45E+00	2
KI=1036.61	FE=162	4.11E-01	2.59E-02	1.83E-02	4.45E+00	2
KI=1038.51	FE=163	9.46E-01	2.91E-02	2.06E-02	2.18E+00	2
KI=1040.61	FE=164	2.71E-01	2.85E-02	2.01E-02	7.44E+00	2
KI=1043.21	FE=165	1.62E+00	1.68E-02	1.19E-02	7.33E-01	2
KI=1044.71	FE=166	6.30E-01	1.87E-02	1.32E-02	2.09E+00	2
KI=1046.41	FE=167	2.53E+00	1.01E-02	7.18E-03	2.83E-01	2
KI=1049.41	FE=168	1.03E+00	3.94E-02	2.78E-02	2.71E+00	2
KI=1050.61	FE=169	1.59E+00	6.48E-02	4.58E-02	2.88E+00	2
KI=1053.81	FE=170	2.02E+00	4.44E-03	3.14E-03	1.54E-01	2
KI=1055.31	FE=171	4.02E-01	1.69E-01	1.20E-01	2.98E+01	2
KI=1057.91	FE=173	1.74E+00	1.70E-03	1.20E-03	6.90E-02	2
KI=1060.81	FE=174	2.41E+00	2.49E-02	1.76E-02	7.29E-01	2
KI=1064.61	FE=175	2.73E+00	1.36E-02	9.62E-03	3.52E-01	2
KI=1066.21	FE=176	6.70E-01	8.25E-03	5.83E-03	8.70E-01	2
KI=1070.61	FE=177	3.57E+00	3.85E-02	2.72E-02	7.63E-01	2
KI=1072.81	FE=178	2.00E+00	2.45E-03	1.73E-03	8.67E-02	2
KI=1079.01	FE=179	3.42E+00	2.49E-02	1.76E-02	5.14E-01	2
KI=1081.61	FE=180	9.15E-01	7.09E-04	5.01E-04	5.48E-02	2
KI=1084.31	FE=181	1.07E+00	1.19E-02	8.45E-03	7.88E-01	2



KI=1087.2:	FE=182	6.59E-01	1.50E-02	1.06E-02	1.61E+00	2
KI=1089.4:	FE=183	5.10E-01	1.26E-02	8.89E-03	1.74E+00	2
KI=1090.8:	FE=184	5.61E-01	1.23E-02	9.07E-03	1.62E+00	2
KI=1093.8:	FE=185	2.80E-01	1.52E-03	1.08E-03	3.85E-01	2
KI=1096.0:	FE=186	1.01E+00	1.39E-04	9.79E-05	9.65E-03	2
\$1100-n-C11-ANE:	FE=187	1.72E+01	1.34E-01	9.46E-02	5.50E-01	2
KI=1104.4:	FE=189	5.40E-01	3.40E-03	2.40E-03	4.45E-01	2
KI=1106.6:	FE=190	1.12E-01	1.44E-03	1.02E-03	9.06E-01	2
KI=1108.4:	FE=191	1.15E+00	1.32E-02	9.30E-03	8.09E-01	2
KI=1110.3:	FE=192	3.46E-01	8.37E-03	5.92E-03	1.71E+00	2
KI=1112.6:	FE=193	2.18E+00	3.51E-02	2.48E-02	1.14E+00	2
KI=1115.8:	FE=194	1.89E+00	1.83E-02	1.29E-02	6.84E-01	2
KI=1117.7:	FE=195	8.61E-01	2.57E-02	1.82E-02	2.11E+00	2
KI=1119.7:	FE=196	1.34E-01	1.27E-03	9.01E-04	6.75E-01	2
KI=1123.4:	FE=198	3.09E-01	7.49E-03	5.30E-03	1.72E+00	2
KI=1127.0:	FE=199	1.17E+00	1.46E-02	1.03E-02	8.83E-01	2
KI=1129.4:	FE=200	1.71E+00	1.65E-02	1.16E-02	6.82E-01	2
KI=1132.7:	FE=201	1.14E-01	2.76E-02	1.95E-02	1.71E+01	2
KI=1135.0:	FE=203	2.30E-01	9.63E-04	6.81E-04	2.96E-01	2
KI=1137.1:	FE=204	1.68E-01	4.03E-03	2.85E-03	1.70E+00	2
KI=1139.7:	FE=205	1.07E+00	3.85E-02	2.72E-02	2.54E+00	2
KI=1141.0:	FE=206	8.97E-01	1.38E-02	9.73E-03	1.08E+00	2
KI=1144.0:	FE=207	1.62E+00	1.75E-02	1.24E-02	7.64E-01	2
KI=1148.3:	FE=208	8.15E-01	5.52E-03	3.90E-03	4.79E-01	2
KI=1149.8:	FE=209	3.56E-01	6.58E-04	4.65E-04	1.31E-01	2
KI=1152.6:	FE=210	1.40E+00	1.65E-02	1.16E-02	8.29E-01	2
KI=1155.0:	FE=211	7.84E-01	1.82E-02	1.29E-02	1.64E+00	2
KI=1156.1:	FE=212	1.65E+00	1.26E-02	8.88E-03	5.37E-01	2
KI=1158.0:	FE=213	2.19E-01	2.38E-02	1.68E-02	7.69E+00	2
KI=1159.8:	FE=214	1.60E+00	3.10E-02	2.19E-02	1.37E+00	2
KI=1161.8:	FE=215	4.16E-01	3.84E-02	2.72E-02	6.53E+00	2
KI=1164.2:	FE=216	2.96E+00	9.75E-02	6.89E-02	2.32E+00	2
KI=1170.4:	FE=217	3.55E+00	1.67E+00	1.18E+00	3.32E+01	2
KI=1171.4:	FE=218	1.46E+00				1
KI=1175.9:	FE=219	4.66E-01	3.45E-01	2.44E-01	5.24E+01	2
KI=1179.7:	FE=220	7.33E-01	1.85E-01	1.31E-01	1.79E+01	2
KI=1181.4:	FE=221	9.35E-01	1.21E-01	8.56E-02	9.16E+00	2
KI=1185.3:	FE=222	2.19E+00	2.47E-01	1.75E-01	7.98E+00	2
KI=1189.6:	FE=223	1.08E+00	1.21E-01	8.57E-02	7.95E+00	2
KI=1191.5:	FE=224	9.00E-01	5.63E-02	3.98E-02	4.42E+00	2
KI=1193.9:	FE=225	1.22E+00	6.55E-02	4.63E-02	3.79E+00	2
\$1200-n-C12-ANE:	FE=227	1.39E+01	1.44E-02	1.02E-02	7.32E-02	2
KI=1203.4:	FE=228	5.70E-01	1.49E-01	1.05E-01	1.85E+01	2
KI=1205.6:	FE=229	4.69E-01	3.29E-01	2.33E-01	4.94E+01	2
KI=1210.9:	FE=231	8.63E-01	3.81E-01	2.70E-01	3.12E+01	2
KI=1214.2:	FE=232	4.40E+00	4.23E-01	2.99E-01	6.80E+00	2
KI=1218.2:	FE=233	6.16E-01	6.47E-01	4.58E-01	7.43E+01	2
KI=1221.7:	FE=235	4.31E-01	3.19E-01	2.26E-01	5.24E+01	2
KI=1224.3:	FE=236	3.60E-01	7.80E-02	5.52E-02	1.53E+01	2
KI=1227.8:	FE=237	1.05E+00	4.31E-02	3.04E-02	2.89E+00	2
KI=1233.9:	FE=238	2.20E+00	1.47E-02	1.04E-02	4.73E-01	2
KI=1238.6:	FE=239	1.36E+00	6.97E-04	4.93E-04	3.63E-02	2
KI=1241.7:	FE=240	6.40E-01	6.89E-03	4.87E-03	7.62E-01	2
KI=1245.4:	FE=241	4.96E-01	4.43E-04	3.13E-04	6.31E-02	2
KI=1248.5:	FE=242	9.05E-01	1.34E-04	9.47E-05	1.05E-02	2
KI=1252.8:	FE=243	1.25E+00	3.44E-03	2.43E-03	1.95E-01	2
KI=1254.8:	FE=244	1.87E+00	2.18E-02	1.54E-02	8.23E-01	2
KI=1259.3:	FE=245	1.43E+00	5.43E-03	3.84E-03	2.68E-01	2
KI=1264.0:	FE=246	1.87E+00	8.90E-03	6.29E-03	3.37E-01	2
KI=1267.6:	FE=247	6.85E-01	7.26E-03	5.14E-03	7.50E-01	2
KI=1270.2:	FE=248	1.25E+00	6.51E-03	4.60E-03	3.67E-01	2

KI=1273.1;	FE=249	3.78E+00	6.15E-03	4.35E-03	1.15E-01	2
KI=1282.7;	FE=253	2.03E+00	7.30E-03	5.16E-03	2.54E-01	2
KI=1285.6;	FE=254	3.47E-01	1.02E-04	7.21E-05	2.08E-02	2
KI=1288.3;	FE=255	1.10E-01				1
KI=1294.2;	FE=256	4.17E-01	1.93E-02	1.37E-02	3.28E+00	2
\$1300-n-C13-ANE;	FE=257	1.18E+01	1.13E-02	8.02E-03	6.83E-02	2
KI=1309.6;	FE=259	6.34E-01	2.19E-02	1.55E-02	2.45E+00	2
KI=1311.5;	FE=260	4.25E-01	7.75E-03	5.48E-03	1.29E+00	2
KI=1318.0;	FE=262	9.32E-01	5.06E-01	3.58E-01	<u>3.84E+01</u>	2
KI=1323.1;	FE=263	3.43E-01	1.28E-01	9.08E-02	<u>2.65E+01</u>	2
KI=1328.0;	FE=264	6.70E-01	1.85E-02	1.31E-02	1.25E+00	2
KI=1333.4;	FE=265	4.51E-01	1.37E-01	9.68E-02	<u>2.15E+01</u>	2
KI=1338.4;	FE=266	8.08E-01	5.57E-01	3.94E-01	<u>4.87E+01</u>	2
KI=1342.2;	FE=267	2.62E-01	1.23E-01	8.70E-02	<u>3.32E+01</u>	2
KI=1344.5;	FE=268	1.16E-01				1
KI=1347.5;	FE=269	1.89E-01	5.87E-03	4.15E-03	2.19E+00	2
KI=1351.1;	FE=270	8.37E-01	4.30E-03	3.04E-03	3.63E-01	2
KI=1354.0;	FE=271	4.19E-01	3.80E-03	2.69E-03	6.42E-01	2
KI=1358.9;	FE=272	7.47E-01	4.70E-02	3.32E-02	4.45E+00	2
KI=1364.0;	FE=273	1.43E+00	2.08E-01	1.47E-01	1.03E+01	2
KI=1370.3;	FE=274	7.20E-01	6.99E-02	4.94E-02	6.87E+00	2
KI=1376.7;	FE=275	1.91E+00	4.96E-04	3.51E-04	1.84E-02	2
KI=1383.0;	FE=276	3.56E-01	3.14E-03	2.22E-03	6.23E-01	2
KI=1388.6;	FE=277	3.09E-01	6.74E-04	4.76E-04	1.54E-01	2
KI=1393.4;	FE=278	1.28E+00	8.21E-02	5.81E-02	4.54E+00	2
\$1400-n-C14-ANE;	FE=279	5.67E+00	2.17E-01	1.53E-01	2.71E+00	2
KI=1404.0;	FE=280	2.74E-01	1.94E-02	1.38E-02	5.02E+00	2
KI=1407.9;	FE=281	8.72E-01	1.24E-03	8.76E-04	1.00E-01	2
KI=1411.1;	FE=282	8.24E-01	1.95E-02	1.38E-02	1.67E+00	2
KI=1413.6;	FE=283	2.21E-01	3.74E-03	2.64E-03	1.20E+00	2
KI=1422.0;	FE=285	9.65E-02				1
KI=1427.2;	FE=286	3.48E-01	1.78E-01	1.26E-01	<u>3.62E+01</u>	2
KI=1430.3;	FE=287	1.30E-01	1.04E-02	7.34E-03	5.65E+00	2
KI=1434.1;	FE=288	1.08E-01	1.84E-03	1.30E-03	1.21E+00	2
KI=1443.2;	FE=289	2.68E-01	1.62E-02	1.15E-02	4.29E+00	2
KI=1446.1;	FE=290	1.26E-01				1
KI=1450.5;	FE=291	1.66E-01				1
KI=1453.4;	FE=292	2.11E-01	3.73E-02	2.64E-02	1.25E+01	2
KI=1458.7;	FE=293	3.13E-01	6.38E-03	4.51E-03	1.44E+00	2
KI=1462.7;	FE=294	1.34E+00	9.08E-03	6.42E-03	4.80E-01	2
KI=1470.7;	FE=295	2.89E-01	7.13E-03	5.04E-03	1.74E+00	2
\$1500-n-C15-ANE;	FE=296	1.60E+00	1.64E-03	1.16E-03	7.28E-02	2
\$1600-n-C16-ANE;	FE=297	2.54E-01	3.66E-04	2.59E-04	1.02E-01	2
\$ANTH-d10(1S)(KI=1772)		1.00E+01	0.00E+00	0.00E+00	0.00E+00	2
\$2118-(IMPURITY #3)		8.58E-01	2.92E-02	2.07E-02	2.41E+00	2
TOTAL CONCENTRATION		6.79E+02	4.03E+01	2.85E+01	4.20E+00	2

RELATIVE AMOUNTS OF FEATURES IN FUEL # 607

REPORT: 7.23 CHANNEL: 12

AMT. REL. TO REF. FUEL

SAMPLE: 607JP4MEC01 INJECTED AT 5:38:03 ON MAY 24, 1983

ISTD METHOD: DFFCNT BTL: 13

ACTUAL RUN TIME: 540.000 MINUTES

ISTD-RATIO: 10.000 % REL. STD-AMT: 10.0000 SAMP-AMT: 1.0000

RT	AREA	% REL.	NAME	
37.74	622 VV	108.628	KI= 377.21	FE=001
38.81	2270 VV	114.558	KI= 388.01	FE=002
40.00	7088 BV	112.606	*400-n-C4-ANE:	FE=003
45.74	31125 VV	112.250	KI= 457.61	FE=004
50.00	47377 VV	112.309	*500-n-C5-ANE:	FE=005
50.70	678 VV	107.555	KI= 507.01	FE=006
51.43	1041 VV	158.199	KI= 514.31	FE=008
52.02	4102 BV	112.554	KI= 520.11	FE=009
52.65	16843340 ++	0.000	CH2CL2 SOLVENT	
54.90	7456 VV	110.415	KI= 549.71	FE=010
55.17	9037 VV	111.105	KI= 552.41	FE=011
55.79	521 VB	66.915	IMPURITY #1(KI= 558.6)	
55.99	53562 BV	110.357	KI= 560.41	FE=012
57.70	37693 VV	111.895	KI= 577.31	FE=013
60.00	92429 VV	112.006	*600-n-C6-ANE:	FE=014
61.39	1153 BB	130.758	KI= 613.91	FE=017
62.48	49092 VV	111.899	KI= 624.81	FE=018
62.72	569 VB	101.815	KI= 627.31	FE=019
63.24	9566 BB	112.425	KI= 632.41	FE=020
65.28	5491 VV	112.652	KI= 653.01	FE=021
65.60	46372 BB	111.631	KI= 656.11	FE=022
65.88	19578 BB	102.846	KI= 658.81	FE=023
66.91	27270 BV	112.520	KI= 669.01	FE=024
67.05	65988 VB	110.954	KI= 670.41	FE=025
67.45	3974 VB	101.353	IMPURITY #2(KI= 674.4)	
67.76	79920 BV	111.495	KI= 677.41	FE=026
67.99	14215 VV	111.260	KI= 679.81	FE=027
68.21	13623 VV	111.218	KI= 682.01	FE=028
68.47	24739 VV	111.467	KI= 684.61	FE=029
68.59	7681 VB	111.168	KI= 685.81	FE=030
70.00	145618 VV	111.407	*700-n-C7-ANE:	FE=031
70.18	681 VV	93.407	KI= 701.81	FE=032
70.51	670 VV	123.404	KI= 705.01	FE=033
70.80	1028 VB	119.909	KI= 708.01	FE=035
71.25	92241 VV	111.555	KI= 712.51	FE=036
71.56	8329 VV	111.297	KI= 715.61	FE=037
71.91	5982 BB	110.428	KI= 719.11	FE=038
72.58	9375 BB	111.565	KI= 725.81	FE=039
73.00	13897 BV	111.549	KI= 730.01	FE=040
73.10	23418 VV	111.022	KI= 731.01	FE=041
73.36	9329 VV	111.355	KI= 733.61	FE=042
73.50	8431 VB	111.319	KI= 735.01	FE=043
74.12	9021 BV	111.710	KI= 741.21	FE=044

74.33	2881 VV	111.945	KI= 743.3;	FE=045
74.54	2694 VB	118.480	KI= 745.4;	FE=046
74.99	763 BB	110.662	KI= 749.9;	FE=047

REPORT: 7.23 (CONTINUED) PAGE: 2 AMT. REL. TO REF. FUEL

RT	AREA	% REL.	NAME	
75.39	3411 BB	110.005	KI= 753.9;	FE=048
75.71	24650 BV	110.739	KI= 757.1;	FE=049
75.87	48979 VV	110.717	KI= 758.8;	FE=050
76.20	1641 VB	106.117	KI= 762.0;	FE=051
76.53	103187 BV	110.999	KI= 765.3;	FE=052
76.63	40231 VV	110.577	KI= 766.4;	FE=053
76.88	26884 VV	111.078	KI= 768.8;	FE=054
77.06	14501 VV	111.054	KI= 770.6;	FE=055
77.23	117029 VV	110.809	KI= 772.4;	FE=056
77.52	4803 VB	110.348	KI= 775.2;	FE=057
78.10	6558 BV	111.491	KI= 781.0;	FE=058
78.31	4029 VV	112.642	KI= 783.2;	FE=059
78.43	7339 VV	110.900	KI= 784.4;	FE=060
78.54	799 VV	108.120	KI= 785.4;	FE=061
78.69	14981 VB	113.035	KI= 786.9;	FE=062
79.44	3437 VV	106.526	KI= 794.4;	FE=064
79.57	8290 VB	109.041	KI= 795.7;	FE=065
80.00	155096 BV	110.418	\$800-n-C8-ANE;	FE=066
80.26	537 VB	106.026	KI= 802.5;	FE=067
80.57	739 BV	109.502	KI= 805.7;	FE=068
80.71	1407 VV	112.030	KI= 807.1;	FE=069
80.89	519 VB	105.720	KI= 808.9;	FE=070
81.23	3229 BV	109.542	KI= 812.3;	FE=071
81.36	1565 VV	108.768	KI= 813.6;	FE=072
81.71	5224 VV	110.619	KI= 817.0;	FE=073
81.81	4674 VV	111.069	KI= 818.2;	FE=074
82.13	12981 VV	112.442	KI= 821.3;	FE=075
82.42	22348 VV	116.738	KI= 824.2;	FE=076
82.52	6300 ++	123.420	KI= 825.7;	FE=077
82.81	32506 VV	111.365	KI= 828.1;	FE=078
83.44	36176 BV	110.264	KI= 834.4;	FE=079
83.71	1359 VB	107.614	KI= 837.0;	FE=080
84.08	1198 BV	106.567	KI= 840.8;	FE=081
84.27	11895 VV	110.311	KI= 842.7;	FE=082
84.43	3396 VV	109.459	KI= 844.2;	FE=083
84.62	1433 VV	107.616	KI= 846.2;	FE=084
84.82	719 VB	105.059	KI= 848.2;	FE=085
85.28	988 BV	108.662	KI= 852.8;	FE=087
85.44	26449 VV	110.205	KI= 854.4;	FE=088
85.61	10082 VV	109.901	KI= 856.1;	FE=089
86.00	6197 VV	107.191	KI= 860.0;	FE=090
86.21	47233 VV	109.547	KI= 862.2;	FE=091
86.38	3.282 VV	108.936	KI= 863.8;	FE=092
86.50	36010 VV	107.646	KI= 865.0;	FE=093
86.75	837 VB	44.637	KI= 867.4;	FE=094
86.95	7344 BV	96.415	KI= 869.5;	FE=095
87.12	40608 VV	107.703	KI= 871.2;	FE=096
87.31	1653 VB	95.443	KI= 873.1;	FE=097
87.71	2322 BV	107.601	KI= 877.1;	FE=098
88.00	16570 VV	110.149	KI= 880.0;	FE=099
88.15	6426 VV	109.390	KI= 881.6;	FE=100
88.45	20997 VV	111.238	KI= 884.5;	FE=102
88.73	1646 VB	103.278	KI= 887.4;	FE=103

89.09	1460 BV	103.235	KI= 890.91	FE=104
89.26	824 VV	101.402	KI= 892.61	FE=105
89.46	2364 VV	106.036	KI= 894.61	FE=106

REPORT: 7.23 (CONTINUED) PAGE: 3 AMT. REL. TO REF. FUEL

RT	AREA	% REL.	NAME	
89.59	2304 VV	105.348	KI= 895.91	FE=107
89.76	4588 VV	106.241	KI= 897.61	FE=108
90.00	92413 VV	109.447	\$900-n-C9-ANE1	FE=109
90.13	756 VB	92.929	KI= 911.31	FE=110
90.84	6545 BV	107.563	KI= 908.41	FE=112
91.08	3850 VB	103.875	KI= 910.81	FE=113
91.39	2051 BV	98.721	KI= 913.91	FE=114
91.53	1641 VV	105.649	KI= 915.41	FE=115
91.79	9214 VV	108.003	KI= 917.71	FE=116
92.00	2564 VV	104.511	KI= 920.11	FE=117
92.26	12322 VV	108.963	KI= 922.61	FE=118
92.47	6797 VV	108.572	KI= 924.71	FE=119
92.91	10281 VV	111.703	KI= 929.11	FE=120
93.35	22647 VV	116.914	KI= 933.51	FE=122
93.95	17165 VV	131.555	KI= 939.41	FE=123
94.53	8016 VV	114.924	KI= 945.31	FE=125
94.74	7281 VV	111.741	KI= 947.41	FE=126
95.21	4675 VV	107.524	KI= 952.01	FE=127
95.35	8297 VV	106.822	KI= 953.51	FE=128
95.58	23100 VV	106.427	KI= 955.81	FE=129
95.68	7612 VV	99.795	KI= 956.81	FE=130
96.05	4613 VV	96.766	KI= 960.51	FE=131
96.21	24681 VV	102.028	KI= 962.11	FE=132
96.47	11912 VV	90.433	KI= 964.71	FE=133
96.74	2788 BV	41.712	KI= 967.41	FE=135
97.09	13040 VV	106.928	KI= 970.81	FE=136
97.27	8641 VV	105.702	KI= 972.71	FE=137
97.49	566 VV	85.519	KI= 974.91	FE=138
97.69	8183 VV	105.646	KI= 976.91	FE=139
97.92	7379 VV	114.216	KI= 979.21	FE=140
98.17	2919 VV	103.953	KI= 981.71	FE=142
98.32	1163 VV	99.089	KI= 983.31	FE=143
98.62	40786 VV	109.446	KI= 986.21	FE=144
98.89	4594 VV	105.738	KI= 989.01	FE=145
99.35	5288 VV	119.495	KI= 993.51	FE=146
99.53	1623 VV	129.133	KI= 995.31	FE=147
99.68	1326 VV	110.218	KI= 996.81	FE=148
100.00	74820 VV	110.393	\$1000-n-C10-ANE1	FE=149
100.39	3959 VB	110.728	KI=1003.91	FE=150
100.89	2434 BV	258.607	KI=1009.01	FE=151
101.18	531 VV	.112		
101.39	21753 VV	116.816	KI=1013.91	FE=152
101.70	8262 VV	120.478	KI=1017.01	FE=153
101.92	2802 VV	107.937	KI=1019.31	FE=154
102.01	4011 VV	81.853	KI=1020.11	FE=155
102.29	17275 VV	113.436	KI=1022.91	FE=156
102.58	12569 VV	114.327	KI=1025.81	FE=157
102.84	8609 VV	123.457	KI=1028.41	FE=158
103.16	5575 VV	134.796	KI=1031.61	FE=159
103.33	2229 VV	130.205	KI=1033.41	FE=160
103.46	4682 VV	135.043	KI=1034.61	FE=161
103.66	2217 VV	144.745	KI=1036.61	FE=162
103.85	5024 VV	131.229	KI=1038.51	FE=163

104.06	1489 VV	169.744	KI=1040.6:	FE=164
104.32	8529 VV	127.188	KI=1043.2:	FE=165
104.47	3341 VV	135.710	KI=1044.7:	FE=166

REPORT: 7.23 (CONTINUED) PAGE: 4 AMT. REL. TO REF. FUEL

RT	AREA	% REL.	NAME	
104.64	13268 VV	124.723	KI=1046.4:	FE=167
104.94	5265 VV	135.479	KI=1049.4:	FE=168
105.06	8487 VV	136.422	KI=1050.6:	FE=169
105.38	10556 VV	123.849	KI=1053.8:	FE=170
105.52	2543 VV	145.094	KI=1055.3:	FE=171
105.79	9084 VV	129.947	KI=1057.9:	FE=173
106.08	12550 VV	113.337	KI=1060.8:	FE=174
106.46	14265 VV	110.357	KI=1064.6:	FE=175
106.62	3483 VV	109.673	KI=1066.2:	FE=176
107.06	18570 VV	110.095	KI=1070.6:	FE=177
107.27	10455 VV	110.355	KI=1072.8:	FE=178
107.90	17833 VV	110.276	KI=1079.0:	FE=179
108.16	4786 VV	110.424	KI=1081.6:	FE=180
108.43	5634 VV	111.716	KI=1084.3:	FE=181
108.71	3408 VV	109.826	KI=1087.2:	FE=182
108.94	2634 VV	110.584	KI=1089.4:	FE=183
109.08	2966 VV	111.693	KI=1090.8:	FE=184
109.38	1467 VV	113.376	KI=1093.8:	FE=185
109.59	5306 VV	110.545	KI=1096.0:	FE=186
110.00	89668 VV	111.079	\$1100-n-C11-ANE:	FE=187
110.45	2834 VV	112.745	KI=1104.4:	FE=189
110.66	591 VV	105.039	KI=1106.6:	FE=190
110.84	5976 VV	122.291	KI=1108.4:	FE=191
111.03	1833 VV	133.082	KI=1110.3:	FE=192
111.25	11318 VV	117.572	KI=1112.6:	FE=193
111.57	9839 VV	114.398	KI=1115.8:	FE=194
111.77	4571 VV	113.976	KI=1117.7:	FE=195
111.97	695 VV	109.644	KI=1119.7:	FE=196
112.34	1594 BV	98.974	KI=1123.4:	FE=198
112.70	6074 VV	104.525	KI=1127.0:	FE=199
112.94	8886 VV	99.333	KI=1129.4:	FE=200
113.26	524 VB	29.749	KI=1132.7:	FE=201
113.50	1199 BV	59.169	KI=1135.0:	FE=203
113.71	866 VV	60.806	KI=1137.1:	FE=204
113.97	5489 VV	99.008	KI=1139.7:	FE=205
114.10	4727 VV	101.980	KI=1141.0:	FE=206
114.40	8427 VV	104.433	KI=1144.0:	FE=207
114.83	4274 VV	106.704	KI=1148.3:	FE=208
114.98	1857 VV	105.580	KI=1149.8:	FE=209
115.26	7384 VV	108.850	KI=1152.6:	FE=210
115.50	4145 VV	111.959	KI=1155.0:	FE=211
115.61	8671 VV	105.994	KI=1156.1:	FE=212
115.80	1207 VV	112.520	KI=1158.0:	FE=213
115.98	8445 VV	110.040	KI=1159.8:	FE=214
116.17	2277 VV	114.399	KI=1161.8:	FE=215
116.42	15815 VV	111.088	KI=1164.2:	FE=216
117.04	22925 VV	166.413	KI=1170.4:	FE=217
117.58	3342 VV	146.738	KI=1175.9:	FE=219
117.96	4319 VV	175.783	KI=1179.7:	FE=220
118.15	5206 VV	116.933	KI=1181.4:	FE=221
118.53	12081 VV	117.048	KI=1185.3:	FE=222
118.96	5958 VV	115.805	KI=1189.6:	FE=223
119.15	4854 VV	113.612	KI=1191.5:	FE=224

119.39	6556 VV	125.200	KI=1193.9:	FE=225
120.00	72724 VV	110.130	*1200-n-C12-ANE:	FE=227
120.34	3368 VV	143.652	KI=1203.4:	FE=228

REPORT: 7.23 (CONTINUED) PAGE: 5 AMT. REL. TO REF. FUEL

RT	AREA	% REL.	NAME	
120.56	3314 VV	182.528	KI=1205.6:	FE=229
121.10	5509 VV	152.548	KI=1210.9:	FE=231
121.42	24112 VV	117.775	KI=1214.2:	FE=232
121.81	4912 VV	259.549	KI=1218.2:	FE=233
122.18	3087 VV	174.001	KI=1221.7:	FE=235
122.44	2088 VV	128.422	KI=1224.3:	FE=236
122.79	5628 VV	112.422	KI=1227.8:	FE=237
123.38	11450 VV	115.092	KI=1233.9:	FE=238
123.87	7101 VV	115.015	KI=1238.6:	FE=239
124.17	3328 VV	112.142	KI=1241.7:	FE=240
124.54	2592 VV	113.409	KI=1245.4:	FE=241
124.86	4732 VV	114.618	KI=1248.5:	FE=242
125.28	6520 VV	111.249	KI=1252.8:	FE=243
125.48	9723 VV	109.993	KI=1254.8:	FE=244
125.93	7507 VV	110.266	KI=1259.3:	FE=245
126.40	9739 VV	109.516	KI=1264.0:	FE=246
126.76	3599 VV	114.179	KI=1267.6:	FE=247
127.03	6540 VV	109.885	KI=1270.2:	FE=248
127.32	19729 VV	109.499	KI=1273.1:	FE=249
128.26	10616 BV	106.708	KI=1282.7:	FE=253
128.57	1813 VV	103.773	KI=1285.6:	FE=254
128.85	577 VV	62.684	KI=1288.3:	FE=255
129.43	2131 BV	101.522	KI=1294.2:	FE=256
130.00	61407 VV	109.274	*1300-n-C13-ANE:	FE=257
130.96	3257 BV	102.966	KI=1309.6:	FE=259
131.17	2245 VB	81.322	KI=1311.5:	FE=260
131.80	3552 BV	51.713	KI=1316.0:	FE=262
132.33	1458 VV	73.306	KI=1323.1:	FE=263
132.80	3454 VV	148.211	KI=1328.0:	FE=264
133.34	2000 VV	96.401	KI=1333.4:	FE=265
133.84	2770 BV	72.743	KI=1338.4:	FE=266
134.23	1047 VV	88.777	KI=1342.2:	FE=267
134.76	1006 VV	128.470	KI=1347.5:	FE=269
135.12	4386 VV	115.826	KI=1351.1:	FE=270
135.40	2199 VV	111.202	KI=1354.0:	FE=271
135.89	3783 VB	105.044	KI=1358.9:	FE=272
136.40	6916 BB	110.455	KI=1364.0:	FE=273
137.03	3580 BV	104.619	KI=1370.3:	FE=274
137.67	9993 BB	107.451	KI=1376.7:	FE=275
138.29	1856 BB	101.266	KI=1383.0:	FE=276
138.85	1614 BV	111.129	KI=1388.6:	FE=277
139.34	6479 VV	106.847	KI=1393.4:	FE=278
140.00	29058 BV	106.828	*1400-n-C14-ANE:	FE=279
140.40	1381 VV	105.108	KI=1404.0:	FE=280
140.78	4556 VV	112.385	KI=1407.9:	FE=281
141.10	4357 VV	122.634	KI=1411.1:	FE=282
141.35	1164 VV	189.101	KI=1413.6:	FE=283
141.60	1140 VB	.240		
142.71	2288 BV	140.423	KI=1427.2:	FE=286
143.03	706 VB	106.933	KI=1430.3:	FE=287
143.41	557 BB	105.633	KI=1434.1:	FE=288
144.31	1357 BV	99.509	KI=1443.2:	FE=289
145.04	869 VV	69.810	KI=1450.5:	FE=291



145.35	1203 VV	127.324	KI=1453.41	FE=292
145.88	1620 VV	117.178	KI=1458.71	FE=293
146.27	7022 VB	110.864	KI=1462.71	FE=294

REPORT: 7.23 (CONTINUED) PAGE: 6 AMT. REL. TO REF. FUEL

RT	AREA	% REL.	NAME
147.08	1530 BB	107.298	KI=1470.71 FE=295
150.00	8346 BB	108.149	\$1500-n-C15-ANE:FE=296
160.00	1330 BB	108.278	\$1600-n-C16-ANE:FE=297
177.16	52286 BB		%ANTH-d10(1S)(KI=1772)
211.80	4562 BB	99.189	\$2118-(IMPURITY #3)

TOTAL AREA = 20338780 TOTAL % REL. = 30320.445

PROCESSED DATA FILE: BIP162 RAW DATA FILE: DFR162

REPORT: 8.43 CHANNEL: 12

AMT. REL. TO REF. FUEL

SAMPLE: 607JP4MEC02 INJECTED AT 8:13:53 ON MAY 24, 1983

ISTD METHOD: DFFCNT BTL: 13

ACTUAL RUN TIME: 540.000 MINUTES

ISTD-RATIO: 10.000 % REL. STD-AMT: 10.0000 SAMP-AMT: 1.0000

RT	AREA	% REL.	NAME	
37.74	646 VV	105.556	KI= 377.21	FE=001
38.81	2399 VV	113.337	KI= 388.01	FE=002
40.00	7594 VV	112.920	\$400-n-C4-ANE:	FE=003
45.74	33257 VV	112.263	KI= 457.61	FE=004
50.00	50615 VV	112.306	\$500-n-C5-ANE:	FE=005
50.70	1009 VV	149.934	KI= 507.01	FE=006
51.43	1169 VV	166.380	KI= 514.31	FE=008
52.01	4469 VV	114.776	KI= 520.11	FE=009
52.66	17987276 ++	0.000	CH2CL2 SOLVENT	
54.94	7936 VV	109.997	KI= 549.71	FE=010
55.20	9633 VV	110.857	KI= 552.41	FE=011
55.81	1118 BV	134.485	IMPURITY #1(KI= 558.6)	
56.00	58420 VV	112.662	KI= 560.41	FE=012
57.68	40405 VV	112.270	KI= 577.31	FE=013
60.00	98952 VV	112.236	\$600-n-C6-ANE:	FE=014
61.12	680 BB	112.945	KI= 611.21	FE=016
61.40	1210 BV	128.434	KI= 613.91	FE=017
62.48	52494 VV	111.995	KI= 624.81	FE=018
62.72	679 VB	113.709	KI= 627.31	FE=019
63.24	10125 BV	111.381	KI= 632.41	FE=020
65.29	5859 BV	112.504	KI= 653.01	FE=021
65.60	49745 BB	112.086	KI= 656.11	FE=022
65.88	21015 BB	103.329	KI= 658.81	FE=023
66.91	29375 VV	113.446	KI= 669.01	FE=024
67.05	70773 VB	111.383	KI= 670.41	FE=025
67.45	4308 BV	102.835	IMPURITY #2(KI= 674.4)	
67.76	85838 VV	112.086	KI= 677.41	FE=026
67.99	15284 VV	111.973	KI= 679.81	FE=027
68.21	14645 VV	111.910	KI= 682.01	FE=028
68.47	26588 VV	112.130	KI= 684.61	FE=029
68.59	8274 VB	112.088	KI= 685.81	FE=030
70.00	156508 BV	112.075	\$700-n-C7-ANE:	FE=031
70.18	995 VV	127.699	KI= 701.81	FE=032
70.50	642 BV	110.657	KI= 705.01	FE=033
70.81	759 BB	82.879	KI= 708.01	FE=035
71.25	98970 BV	112.031	KI= 712.51	FE=036
71.56	8965 VB	112.126	KI= 715.61	FE=037
71.91	6408 BB	110.722	KI= 719.11	FE=038
72.57	10041 BB	111.841	KI= 725.81	FE=039
73.00	14916 BV	112.067	KI= 730.01	FE=040
73.09	25136 VV	111.539	KI= 731.01	FE=041
73.36	10022 VV	111.972	KI= 733.61	FE=042
73.50	9038 VB	111.693	KI= 735.01	FE=043

74.12	9672 BV	112.110	KI= 741.21	FE=044
74.33	3106 VV	112.960	KI= 743.31	FE=045
74.53	2870 VB	118.143	KI= 745.41	FE=046

REPORT:	8.43 (CONTINUED)	PAGE: 2	AMT. REL. TO REF. FUEL
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RT	AREA	% REL.	NAME	
74.99	943 BB	128.092	KI= 749.91	FE=047
75.38	3723 BV	112.307	KI= 753.91	FE=048
75.71	26565 VV	111.703	KI= 757.11	FE=049
75.87	52640 VV	111.377	KI= 758.81	FE=050
76.19	1744 VB	105.602	KI= 762.01	FE=051
76.53	111046 PV	111.808	KI= 765.31	FE=052
76.64	43168 VV	111.056	KI= 766.41	FE=053
76.88	28891 VV	111.731	KI= 768.81	FE=054
77.06	15591 VV	111.760	KI= 770.61	FE=055
77.24	125839 VV	111.525	KI= 772.41	FE=056
77.52	5162 VB	111.006	KI= 775.21	FE=057
78.10	7021 BV	111.719	KI= 781.01	FE=058
78.31	4309 VV	112.759	KI= 783.21	FE=059
78.43	8719 VV	123.327	KI= 784.41	FE=060
78.68	16018 VB	113.120	KI= 786.91	FE=062
79.10	522 BV	100.542	KI= 791.11	FE=063
79.44	3711 VV	107.670	KI= 794.41	FE=064
79.56	8777 VV	108.058	KI= 795.71	FE=065
80.00	166851 BV	111.184	8800-n-C8-ANE1	FE=066
80.25	590 VB	109.079	KI= 802.51	FE=067
80.56	781 BV	108.727	KI= 805.71	FE=068
80.71	1504 VV	112.056	KI= 807.11	FE=069
80.88	542 VB	103.361	KI= 808.91	FE=070
81.23	3457 BV	109.774	KI= 812.31	FE=071
81.36	1651 VB	107.369	KI= 813.61	FE=072
81.70	5512 BV	109.237	KI= 817.01	FE=073
81.81	4488 VV	99.822	KI= 818.21	FE=074
82.13	12859 VV	104.249	KI= 821.31	FE=075
82.41	18428 VV	90.103	KI= 824.21	FE=076
82.60	1019 BV	18.686	KI= 825.71	FE=077
82.81	33529 VV	107.521	KI= 828.11	FE=078
83.44	38927 BV	111.055	KI= 834.41	FE=079
83.70	1459 VB	108.098	KI= 837.01	FE=080
84.08	1300 BV	108.244	KI= 840.81	FE=081
84.26	12781 VV	110.934	KI= 842.71	FE=082
84.42	3648 VV	110.050	KI= 844.21	FE=083
84.62	1524 VV	107.152	KI= 846.21	FE=084
84.82	769 VB	105.121	KI= 848.21	FE=085
85.09	521 BB	96.758	KI= 850.91	FE=086
85.28	1061 BV	109.199	KI= 852.81	FE=087
85.44	28462 VV	111.003	KI= 854.41	FE=088
85.61	10835 VV	110.545	KI= 856.11	FE=089
86.00	6820 VV	110.414	KI= 860.01	FE=090
86.21	51743 VV	112.325	KI= 862.21	FE=091
86.38	33484 VV	109.136	KI= 863.81	FE=092
86.50	39802 VV	111.367	KI= 865.01	FE=093
86.74	2208 VV	110.190	KI= 867.41	FE=094
86.95	9167 VV	112.638	KI= 869.51	FE=095
87.12	44746 VV	111.082	KI= 871.21	FE=096
87.31	2371 VV	114.686	KI= 873.11	FE=097
87.71	2545 VV	110.407	KI= 877.11	FE=098
87.99	17806 VV	110.792	KI= 880.01	FE=099
88.15	6996 VV	111.471	KI= 881.61	FE=100

88.44	22625 VV 112.193	KI= 884.51	FE=102
88.73	1783 VB 104.760	KI= 887.41	FE=103
89.08	1600 BV 105.907	KI= 890.91	FE=104

REPORT: 8.43 (CONTINUED) PAGE: 3 AMT. REL. TO REF. FUEL

RT	AREA	% REL.	NAME	
89.26	926 VV	106.682	KI= 892.61	FE=105
89.45	2632 VV	110.557	KI= 894.61	FE=106
89.59	2553 VV	109.251	KI= 895.91	FE=107
89.76	5101 VV	110.543	KI= 897.61	FE=108
90.00	100743 VV	111.676	\$900-n-C9-ANE1	FE=109
90.84	7016 VV	107.916	KI= 908.41	FE=112
91.08	4198 VB	106.014	KI= 910.81	FE=113
91.39	2222 BV	100.069	KI= 913.91	FE=114
91.53	1736 VV	104.597	KI= 915.41	FE=115
91.76	9954 VV	109.217	KI= 917.71	FE=116
92.00	2761 VV	105.312	KI= 920.11	FE=117
92.26	13267 VV	109.818	KI= 922.61	FE=118
92.47	7349 VV	109.880	KI= 924.71	FE=119
92.91	11121 VV	113.099	KI= 929.11	FE=120
93.35	24460 VV	118.191	KI= 933.51	FE=122
93.94	18555 VV	133.108	KI= 939.41	FE=123
94.52	8660 VV	116.205	KI= 945.31	FE=125
94.74	7875 VB	113.118	KI= 947.41	FE=126
95.20	5177 BV	111.447	KI= 952.01	FE=127
95.35	9328 VV	112.407	KI= 953.51	FE=128
95.57	25208 VV	108.707	KI= 955.81	FE=129
95.68	9586 VV	117.641	KI= 956.81	FE=130
96.04	6192 VV	121.579	KI= 960.51	FE=131
96.21	29763 VV	115.162	KI= 962.11	FE=132
96.47	17586 VV	124.963	KI= 964.71	FE=133
96.60	2022 VV	107.122	KI= 966.11	FE=134
96.74	7777 VV	108.893	KI= 967.41	FE=135
97.08	14730 VV	113.062	KI= 970.81	FE=136
97.27	9895 VV	113.301	KI= 972.71	FE=137
97.49	934 VV	132.006	KI= 974.91	FE=138
97.69	9417 VV	113.794	KI= 976.91	FE=139
97.92	8543 VV	123.770	KI= 979.21	FE=140
98.16	3415 VV	113.823	KI= 981.71	FE=142
98.33	1557 VV	124.162	KI= 983.31	FE=143
98.62	44456 VV	111.457	KI= 986.21	FE=144
98.90	5330 VV	114.822	KI= 989.01	FE=145
99.35	6129 VV	129.625	KI= 993.51	FE=146
99.52	1921 VV	143.087	KI= 995.31	FE=147
99.67	1490 VV	116.524	KI= 996.81	FE=148
100.00	80933 VV	111.769	\$1000-n-C10-ANE1	FE=149
100.38	4322 VB	113.129	KI=1003.91	FE=150
100.89	2038 BV	202.691	KI=1009.01	FE=151
101.38	20696 VV	104.028	KI=1013.91	FE=152
101.70	5419 VV	73.963	KI=1017.01	FE=153
102.01	989 BV	18.891	KI=1020.11	FE=155
102.28	16654 VV	102.364	KI=1022.91	FE=156
102.57	13075 VV	111.316	KI=1025.81	FE=157
102.83	8900 VV	119.453	KI=1028.41	FE=158
103.16	5643 VV	127.715	KI=1031.61	FE=159
103.33	2324 VV	127.042	KI=1033.41	FE=160
103.45	4764 VV	128.614	KI=1034.61	FE=161
103.65	2224 VV	135.910	KI=1036.61	FE=162
103.85	5205 VV	127.254	KI=1038.51	FE=163

104.06	1432 VV	152.779	KI=1040.61	FE=164
104.32	9019 VV	125.876	KI=1043.21	FE=165
104.47	3466 VV	131.748	KI=1044.71	FE=166

REPORT: 8.43 (CONTINUED) PAGE: 4 AMT. REL. TO REF. FUEL

RT	AREA	% REL.	NAME	
104.63	14119 VV	124.224	KI=1046.41	FE=167
104.94	5845 VV	140.774	KI=1049.41	FE=168
105.06	8705 VV	130.972	KI=1050.61	FE=169
105.37	11253 VV	123.577	KI=1053.81	FE=170
105.52	1770 VV	94.542	KI=1055.31	FE=171
105.62	940 VV	185		
105.79	9715 VV	130.074	KI=1057.91	FE=173
106.08	13547 VV	114.511	KI=1060.81	FE=174
106.45	15316 VV	110.907	KI=1064.61	FE=175
106.62	3767 VV	111.031	KI=1066.21	FE=176
107.06	20054 VV	111.289	KI=1070.61	FE=177
107.27	11157 VV	110.219	KI=1072.81	FE=178
107.90	19191 VV	111.081	KI=1079.01	FE=179
108.16	5110 VV	110.338	KI=1081.61	FE=180
108.43	5953 VV	110.478	KI=1084.31	FE=181
108.71	3725 VV	112.348	KI=1087.21	FE=182
108.94	2884 VV	113.344	KI=1089.41	FE=183
109.07	3097 VV	109.168	KI=1090.81	FE=184
109.39	1559 VV	112.761	KI=1093.81	FE=185
109.59	5668 VV	110.530	KI=1096.01	FE=186
110.00	96547 VV	111.946	\$1100-n-C11-ANE	FE=187
110.44	3009 VV	112.038	KI=1104.41	FE=189
110.66	623 VV	103.702	KI=1106.61	FE=190
110.84	6458 VV	123.699	KI=1108.41	FE=191
111.02	1911 VV	129.903	KI=1110.31	FE=192
111.25	12288 VV	119.476	KI=1112.61	FE=193
111.57	10614 VV	115.511	KI=1115.81	FE=194
111.77	4740 VV	110.625	KI=1117.71	FE=195
111.97	749 VV	110.695	KI=1119.71	FE=196
112.34	1745 BV	101.406	KI=1123.41	FE=198
112.70	6571 VV	105.838	KI=1127.01	FE=199
112.94	9585 VV	100.296	KI=1129.41	FE=200
113.26	714 VV	37.941	KI=1132.71	FE=201
113.50	1286 BV	59.418	KI=1135.01	FE=203
113.72	947 VV	62.286	KI=1137.11	FE=204
113.97	6080 VV	102.633	KI=1139.71	FE=205
114.09	4973 VV	100.428	KI=1141.01	FE=206
114.40	9101 VV	105.568	KI=1144.01	FE=207
114.83	4535 VV	105.984	KI=1148.31	FE=208
114.97	1988 VV	105.776	KI=1149.81	FE=209
115.25	7797 VV	107.581	KI=1152.61	FE=210
115.49	4327 VV	109.389	KI=1155.01	FE=211
115.61	9194 VV	105.192	KI=1156.11	FE=212
115.80	1157 VV	100.912	KI=1158.01	FE=213
115.98	8849 VV	107.928	KI=1159.81	FE=214
116.17	2219 VV	104.301	KI=1161.81	FE=215
116.41	16351 VV	107.507	KI=1164.21	FE=216
117.04	15188 VV	103.198	KI=1170.41	FE=217
117.12	8136 VV	107.935	KI=1171.41	FE=218
117.59	1640 VB	67.421	KI=1175.91	FE=219
117.96	3578 BV	97.537	KI=1179.71	FE=220
118.14	4886 VV	102.712	KI=1181.41	FE=221
118.53	11528 VV	104.541	KI=1185.31	FE=222

118.96	5688 VV 103.482	KI=1189.61	FE=223
119.15	4871 VV 106.722	KI=1191.51	FE=224
119.39	6639 VV 118.662	KI=1193.91	FE=225

REPORT: 8.43 (CONTINUED) PAGE: 5 AMT. REL. TO REF. FUEL

RT	AREA	% REL.	NAME
120.00	77616 VV 110.016	\$1200-n-C12-ANE	FE=227
120.34	2765 VV 110.399	KI=1203.41	FE=228
120.55	1703 VV 87.773	KI=1205.61	FE=229
121.09	3755 BV 97.336	KI=1210.91	FE=231
121.41	23398 VV 106.971	KI=1214.21	FE=232
121.82	1633 VV 80.752	KI=1218.21	FE=233
122.17	1516 BV 79.982	KI=1221.71	FE=235
122.43	1794 VV 103.320	KI=1224.31	FE=236
122.78	5772 VV 107.925	KI=1227.81	FE=237
123.39	12315 VV 115.864	KI=1233.91	FE=238
123.86	7583 VV 114.956	KI=1238.61	FE=239
124.17	3594 VV 113.357	KI=1241.71	FE=240
124.54	2767 VV 113.307	KI=1245.41	FE=241
124.84	5056 VV 114.635	KI=1248.51	FE=242
125.28	6947 VV 110.943	KI=1252.81	FE=243
125.48	10509 VV 111.280	KI=1254.81	FE=244
125.92	7990 VV 109.849	KI=1259.31	FE=245
126.40	10455 VV 110.039	KI=1264.01	FE=246
126.76	3804 VV 112.974	KI=1267.61	FE=247
127.02	7024 VV 110.456	KI=1270.21	FE=248
127.31	21112 VV 109.678	KI=1273.11	FE=249
128.26	11383 BV 107.092	KI=1282.71	FE=253
128.56	1936 VV 103.743	KI=1285.61	FE=254
129.42	2384 BV 106.336	KI=1294.21	FE=256
130.00	65670 BV 109.375	\$1300-n-C13-ANE	FE=257
130.95	3602 BV 106.591	KI=1309.61	FE=259
131.15	2355 BV 79.854	KI=1311.51	FE=260
131.62	1236 BV .243		
131.80	6622 VV 90.246	KI=1318.01	FE=262
132.31	2275 VV 107.076	KI=1323.11	FE=263
132.80	3793 VV 152.365	KI=1328.01	FE=264
133.34	2902 VV 130.882	KI=1333.41	FE=265
133.84	6072 VV 149.243	KI=1338.41	FE=266
134.21	1806 VV 143.346	KI=1342.21	FE=267
134.43	645 BV 104.362	KI=1344.51	FE=268
134.74	1042 BV 124.553	KI=1347.51	FE=269
135.10	4662 VV 115.232	KI=1351.11	FE=270
135.41	2328 VV 110.197	KI=1354.01	FE=271
135.88	4304 VV 111.864	KI=1358.91	FE=272
136.40	8553 VV 127.855	KI=1364.01	FE=273
137.03	4215 VV 115.296	KI=1370.31	FE=274
137.67	10674 BV 107.423	KI=1376.71	FE=275
138.30	2000 BV 102.163	KI=1383.01	FE=276
138.85	1728 BV 111.372	KI=1388.61	FE=277
139.33	7381 VV 113.928	KI=1393.41	FE=278
140.00	32257 VV 110.998	\$1400-n-C14-ANE	FE=279
140.40	1585 VV 112.845	KI=1404.01	FE=280
140.78	4874 VV 112.545	KI=1407.91	FE=281
141.09	4546 VV 119.767	KI=1411.11	FE=282
141.35	1223 VV 185.927	KI=1413.61	FE=283
141.59	1135 BV .224		
142.21	539 BV 110.013	KI=1422.01	FE=285
142.71	1448 BV 83.193	KI=1427.21	FE=286

143.01	696 VB	98.718	KI=1430.31	FE=287
143.42	606 BB	107.452	KI=1434.11	FE=288
144.31	1541 BV	105.735	KI=1443.21	FE=289

REPORT: 8.43 (CONTINUED) PAGE: 6 AMT. REL. TO REF. FUEL

RT	AREA	% REL.	NAME	
144.60	701 VV	103.022	KI=1446.11	FE=290
145.35	1077 VV	106.678	KI=1453.41	FE=292
145.86	1767 VV	119.589	KI=1458.71	FE=293
146.26	7452 VB	110.114	KI=1462.71	FE=294
147.07	1595 BB	104.684	KI=1470.71	FE=295
150.00	8926 BB	108.261	#1500-n-C15-ANE	FE=296
160.00	1419 BB	108.122	#1600-n-C16-ANE	FE=297
177.16	55861 BB		&ANTH-d10(1S)(KI=1772)	
211.80	4711 BB	95.869	#2118-(IMPURITY #3)	

TOTAL AREA = 21959680 TOTAL % REL. = 30457.683

PROCESSED DATA FILE: BIP163 RAW DATA FILE: DFR163

# STATISTICAL SUMMARY OF MH08 DATA BASE

CONSISTING OF 2 SAMPLES  
CONCENTRATION (% REL.)

COMPOUND NAME		AVERAGE	RANGE	STANDARD DEVIATION	%REL STANDARD DEVIATION	NUMBER OF SAMPLES
KI= 377.2;	FE=001	1.07E+02	3.07E+00	2.17E+00	2.03E+00	2
KI= 388.0;	FE=002	1.14E+02	1.22E+00	8.63E-01	7.58E-01	2
\$400-n-C4-ANE;	FE=003	1.13E+02	3.14E-01	2.22E-01	1.97E-01	2
KI= 457.6;	FE=004	1.12E+02	1.28E-02	9.06E-03	8.07E-03	2
\$500-n-C5-ANE;	FE=005	1.12E+02	2.88E-03	2.04E-03	1.82E-03	2
KI= 507.0;	FE=006	1.29E+02	4.24E+01	3.00E+01	2.33E+01	2
KI= 514.3;	FE=008	1.62E+02	8.18E+00	5.78E+00	3.56E+00	2
KI= 520.1;	FE=009	1.14E+02	2.22E+00	1.57E+00	1.38E+00	2
CH2CL2 SOLVENT		0.00E+00	0.00E+00	0.00E+00	1.70E+38	2
KI= 549.7;	FE=010	1.10E+02	4.18E-01	2.96E-01	2.68E-01	2
KI= 552.4;	FE=011	1.11E+02	2.48E-01	1.75E-01	1.58E-01	2
IMPURITY #1(KI= 558.6)		1.01E+02	6.76E+01	4.78E+01	4.74E+01	2
KI= 560.4;	FE=012	1.12E+02	2.30E+00	1.63E+00	1.46E+00	2
KI= 577.3;	FE=013	1.12E+02	3.75E-01	2.65E-01	2.37E-01	2
\$600-n-C6-ANE;	FE=014	1.12E+02	2.30E-01	1.63E-01	1.45E-01	2
KI= 611.2;	FE=016	1.13E+02				1
KI= 613.9;	FE=017	1.30E+02	2.32E+00	1.64E+00	1.27E+00	2
KI= 624.8;	FE=018	1.12E+02	9.58E-02	6.77E-02	6.05E-02	2
KI= 627.3;	FE=019	1.08E+02	1.19E+01	8.41E+00	7.81E+00	2
KI= 632.4;	FE=020	1.12E+02	1.04E+00	7.38E-01	6.60E-01	2
KI= 653.0;	FE=021	1.13E+02	1.48E-01	1.05E-01	9.29E-02	2
KI= 656.1;	FE=022	1.12E+02	4.55E-01	3.22E-01	2.88E-01	2
KI= 658.8;	FE=023	1.03E+02	4.82E-01	3.41E-01	3.31E-01	2
KI= 669.0;	FE=024	1.13E+02	9.26E-01	6.55E-01	5.80E-01	2
KI= 670.4;	FE=025	1.11E+02	4.30E-01	3.04E-01	2.73E-01	2
IMPURITY #2(KI= 674.4)		1.02E+02	1.48E+00	1.05E+00	1.03E+00	2
KI= 677.4;	FE=026	1.12E+02	5.91E-01	4.18E-01	3.74E-01	2
KI= 679.8;	FE=027	1.12E+02	7.14E-01	5.05E-01	4.52E-01	2
KI= 682.0;	FE=028	1.12E+02	6.92E-01	4.89E-01	4.38E-01	2
KI= 684.6;	FE=029	1.12E+02	6.43E-01	4.69E-01	4.20E-01	2
KI= 685.8;	FE=030	1.12E+02	9.20E-01	6.51E-01	5.83E-01	2
\$700-n-C7-ANE;	FE=031	1.12E+02	6.68E-01	5.72E-01	4.23E-01	2
KI= 701.8;	FE=032	1.11E+02	3.43E+01	2.42E+01	2.19E+01	2
KI= 705.0;	FE=033	1.17E+02	1.27E+01	9.01E+00	7.70E+00	2
KI= 708.0;	FE=035	1.01E+02	3.70E+01	2.62E+01	2.58E+01	2
KI= 712.5;	FE=037	1.12E+02	4.77E-01	3.37E-01	3.01E-01	2
KI= 715.6;	FE=037	1.12E+02	8.29E-01	5.86E-01	5.25E-01	2
KI= 719.1;	FE=038	1.11E+02	2.93E-01	2.08E-01	1.88E-01	2
KI= 725.8;	FE=039	1.12E+02	2.76E-01	1.95E-01	1.75E-01	2
KI= 730.0;	FE=040	1.12E+02	5.18E-01	3.67E-01	3.28E-01	2
KI= 731.0;	FE=041	1.11E+02	5.17E-01	3.63E-01	3.28E-01	2
KI= 737.6;	FE=042	1.12E+02	6.16E-01	4.36E-01	3.90E-01	2
KI= 755.0;	FE=043	1.12E+02	3.74E-01	2.65E-01	2.37E-01	2
KI= 741.2;	FE=044	1.12E+02	4.00E-01	2.83E-01	2.52E-01	2
KI= 743.3;	FE=045	1.12E+02	1.02E+00	7.18E-01	6.39E-01	2
KI= 745.4;	FE=046	1.18E+02	3.37E-01	2.38E-01	2.01E-01	2
KI= 749.9;	FE=047	1.19E+02	1.74E+01	1.23E+01	1.03E+01	2
KI= 753.9;	FE=048	1.11E+02	2.38E+00	1.68E+00	1.51E+00	2
KI= 757.1;	FE=049	1.11E+02	9.64E-01	6.82E-01	6.13E-01	2
KI= 758.8;	FE=050	1.11E+02	6.59E-01	4.66E-01	4.20E-01	2
KI= 762.0;	FE=051	1.06E+02	5.15E-01	3.64E-01	3.44E-01	2
KI= 765.3;	FE=052	1.11E+02	8.09E-01	5.72E-01	5.14E-01	2
KI= 766.4;	FE=053	1.11E+02	4.79E-01	3.38E-01	3.05E-01	2



KI= 768.81	FE=054	1.11E+02	6.53E-01	4.62E-01	4.14E-01	2
KI= 770.61	FE=055	1.11E+02	7.06E-01	5.00E-01	4.48E-01	2
KI= 772.41	FE=056	1.11E+02	7.16E-01	5.06E-01	4.55E-01	2
KI= 775.21	FE=057	1.11E+02	6.58E-01	4.65E-01	4.20E-01	2
KI= 781.01	FE=058	1.12E+02	2.28E-01	1.61E-01	1.44E-01	2
KI= 783.21	FE=059	1.13E+02	1.17E-01	8.26E-02	7.33E-02	2
KI= 784.41	FE=060	1.17E+02	1.24E+01	8.79E+00	7.50E+00	2
KI= 785.41	FE=061	1.08E+02				1
KI= 786.91	FE=062	1.13E+02	8.44E-02	5.97E-02	5.28E-02	2
KI= 791.11	FE=063	1.01E+02				1
KI= 794.41	FE=064	1.07E+02	1.14E+00	8.09E-01	7.55E-01	2
KI= 795.71	FE=065	1.09E+02	9.84E-01	6.96E-01	6.41E-01	2
\$800-n-C8-ANE1	FE=066	1.11E+02	7.66E-01	5.42E-01	4.89E-01	2
KI= 802.51	FE=067	1.08E+02	3.05E+00	2.16E+00	2.01E+00	2
KI= 805.71	FE=068	1.09E+02	1.17E+00	8.31E-01	7.60E-01	2
KI= 807.11	FE=069	1.12E+02	2.59E-02	1.83E-02	1.64E-02	2
KI= 808.91	FE=070	1.05E+02	2.36E+00	1.67E+00	1.60E+00	2
KI= 812.31	FE=071	1.10E+02	2.31E-01	1.64E-01	1.49E-01	2
KI= 813.61	FE=072	1.08E+02	1.40E+00	9.90E-01	9.16E-01	2
KI= 817.01	FE=073	1.10E+02	1.38E+00	9.77E-01	8.89E-01	2
KI= 818.21	FE=074	1.05E+02	1.12E+01	7.95E+00	7.54E+00	2
KI= 821.31	FE=075	1.08E+02	8.19E+00	5.79E+00	5.35E+00	2
KI= 824.21	FE=076	1.03E+02	2.66E+01	1.88E+01	1.82E+01	2
KI= 825.71	FE=077	7.11E+01	1.05E+02	7.41E+01	1.04E+02	2
KI= 828.11	FE=078	1.09E+02	3.84E+00	2.72E+00	2.48E+00	2
KI= 834.41	FE=079	1.11E+02	7.91E-01	5.60E-01	5.06E-01	2
KI= 837.01	FE=080	1.08E+02	4.84E-01	3.42E-01	3.17E-01	2
KI= 840.81	FE=081	1.07E+02	1.68E+00	1.19E+00	1.10E+00	2
KI= 842.71	FE=082	1.11E+02	6.22E-01	4.40E-01	3.98E-01	2
KI= 844.21	FE=083	1.10E+02	5.91E-01	4.18E-01	3.81E-01	2
KI= 846.21	FE=084	1.07E+02	4.64E-01	3.28E-01	3.06E-01	2
KI= 848.21	FE=085	1.05E+02	6.19E-02	4.38E-02	4.16E-02	2
KI= 850.91	FE=086	9.68E+01				1
KI= 852.81	FE=087	1.09E+02	5.37E-01	3.80E-01	3.49E-01	2
KI= 854.41	FE=088	1.11E+02	7.97E-01	5.64E-01	5.10E-01	2
KI= 856.11	FE=089	1.10E+02	6.44E-01	4.56E-01	4.13E-01	2
KI= 860.01	FE=090	1.09E+02	3.22E+00	2.28E+00	2.09E+00	2
KI= 862.21	FE=091	1.11E+02	2.78E+00	1.96E+00	1.77E+00	2
KI= 863.81	FE=092	1.09E+02	2.01E-01	1.42E-01	1.30E-01	2
KI= 865.01	FE=093	1.10E+02	3.72E+00	2.63E+00	2.40E+00	2
KI= 867.41	FE=094	7.74E+01	6.56E+01	4.64E+01	5.99E+01	2
KI= 869.51	FE=095	1.05E+02	1.62E+01	1.15E+01	1.10E+01	2
KI= 871.21	FE=096	1.09E+02	3.38E+00	2.39E+00	2.18E+00	2
KI= 873.11	FE=097	1.00E+02	2.92E+01	2.07E+01	2.07E+01	2
KI= 877.11	FE=098	1.09E+02	2.81E+00	1.98E+00	1.82E+00	2
KI= 880.01	FE=099	1.10E+02	6.43E-01	4.55E-01	4.12E-01	2
KI= 881.61	FE=100	1.10E+02	2.08E+00	1.47E+00	1.33E+00	2
KI= 884.51	FE=102	1.12E+02	7.55E-01	6.75E-01	6.04E-01	2
KI= 887.41	FE=103	1.04E+02	1.48E+00	1.05E+00	1.01E+00	2
KI= 890.91	FE=104	1.05E+02	2.67E+00	1.89E+00	1.81E+00	2
KI= 892.61	FE=105	1.04E+02	5.28E+00	3.73E+00	3.59E+00	2
KI= 894.61	FE=106	1.08E+02	4.47E+00	3.16E+00	2.92E+00	2
KI= 895.91	FE=107	1.07E+02	3.90E+00	2.76E+00	2.57E+00	2
KI= 897.61	FE=108	1.08E+02	4.30E+00	3.04E+00	2.81E+00	2
\$900-n-C9-ANE1	FE=109	1.11E+02	2.23E+00	1.58E+00	1.43E+00	2
KI= 901.31	FE=110	9.29E+01				1
KI= 908.41	FE=112	1.08E+02	3.52E-01	2.49E-01	2.31E-01	2
KI= 910.81	FE=113	1.05E+02	2.14E+00	1.51E+00	1.44E+00	2
KI= 913.91	FE=114	9.94E+01	1.35E+00	9.53E-01	9.59E-01	2
KI= 915.41	FE=115	1.05E+02	1.05E+00	7.44E-01	7.08E-01	2
KI= 917.71	FE=116	1.09E+02	1.21E+00	8.59E-01	7.91E-01	2

KI= 920.1:	FE=117	1.05E+02	8.01E-01	5.66E-01	5.40E-01	2
KI= 922.6:	FE=118	1.09E+02	8.55E-01	6.05E-01	5.53E-01	2
KI= 924.7:	FE=119	1.09E+02	1.31E+00	9.25E-01	8.46E-01	2
KI= 929.1:	FE=120	1.12E+02	1.40E+00	9.87E-01	8.78E-01	2
KI= 933.5:	FE=122	1.18E+02	1.28E+00	9.03E-01	7.68E-01	2
KI= 939.4:	FE=123	1.32E+02	1.55E+00	1.10E+00	8.30E-01	2
KI= 945.3:	FE=125	1.16E+02	1.28E+00	9.05E-01	7.83E-01	2
KI= 947.4:	FE=126	1.12E+02	1.38E+00	9.74E-01	8.66E-01	2
KI= 952.0:	FE=127	1.09E+02	3.92E+00	2.77E+00	2.53E+00	2
KI= 953.5:	FE=128	1.10E+02	5.58E+00	3.95E+00	3.60E+00	2
KI= 955.8:	FE=129	1.08E+02	2.28E+00	1.61E+00	1.50E+00	2
KI= 956.8:	FE=130	1.09E+02	1.78E+01	1.26E+01	1.16E+01	2
KI= 960.5:	FE=131	1.09E+02	2.48E+01	1.75E+01	1.61E+01	2
KI= 962.1:	FE=132	1.09E+02	1.31E+01	9.29E+00	8.55E+00	2
KI= 964.7:	FE=133	1.08E+02	3.45E+01	2.44E+01	2.27E+01	2
KI= 966.1:	FE=134	1.07E+02				1
KI= 967.4:	FE=135	7.53E+01	6.72E+01	4.75E+01	6.31E+01	2
KI= 970.8:	FE=136	1.10E+02	6.13E+00	4.34E+00	3.94E+00	2
KI= 972.7:	FE=137	1.10E+02	7.60E+00	5.37E+00	4.91E+00	2
KI= 974.9:	FE=138	1.09E+02	4.65E+01	3.29E+01	3.02E+01	2
KI= 976.9:	FE=139	1.10E+02	8.15E+00	5.76E+00	5.25E+00	2
KI= 979.2:	FE=140	1.19E+02	9.55E+00	6.76E+00	5.68E+00	2
KI= 981.7:	FE=142	1.09E+02	9.87E+00	6.98E+00	6.41E+00	2
KI= 983.3:	FE=143	1.12E+02	2.51E+01	1.77E+01	1.59E+01	2
KI= 986.2:	FE=144	1.11E+02	2.21E+00	1.56E+00	1.41E+00	2
KI= 989.0:	FE=145	1.10E+02	9.08E+00	6.42E+00	5.82E+00	2
KI= 993.5:	FE=146	1.25E+02	1.01E+01	7.16E+00	5.75E+00	2
KI= 995.3:	FE=147	1.36E+02	1.40E+01	9.87E+00	7.25E+00	2
KI= 996.3:	FE=148	1.13E+02	6.31E+00	4.46E+00	3.93E+00	2
\$1000-n-C10-ANE:	FE=149	1.11E+02	1.38E+00	9.74E-01	8.77E-01	2
KI=1003.9:	FE=150	1.12E+02	2.40E+00	1.70E+00	1.52E+00	2
KI=1009.0:	FE=151	2.31E+02	5.59E+01	3.95E+01	1.71E+01	2
KI=1013.9:	FE=152	1.10E+02	1.28E+01	9.04E+00	8.19E+00	2
KI=1017.0:	FE=153	9.72E+01	4.65E+01	3.29E+01	3.38E+01	2
KI=1019.3:	FE=154	1.08E+02				1
KI=1020.1:	FE=155	5.04E+01	6.30E+01	4.45E+01	6.84E+01	2
KI=1022.9:	FE=156	1.08E+02	1.11E+01	7.83E+00	7.26E+00	2
KI=1025.8:	FE=157	1.13E+02	3.01E+00	2.13E+00	1.89E+00	2
KI=1028.4:	FE=158	1.21E+02	4.00E+00	2.83E+00	2.33E+00	2
KI=1031.6:	FE=159	1.31E+02	7.08E+00	5.01E+00	3.81E+00	2
KI=1033.4:	FE=160	1.29E+02	3.16E+00	2.24E+00	1.74E+00	2
KI=1034.6:	FE=161	1.32E+02	6.43E+00	4.55E+00	3.45E+00	2
KI=1036.6:	FE=162	1.40E+02	8.84E+00	6.25E+00	4.45E+00	2
KI=1038.5:	FE=163	1.29E+02	3.98E+00	2.81E+00	2.18E+00	2
KI=1040.6:	FE=164	1.61E+02	1.70E+01	1.20E+01	7.44E+00	2
KI=1043.2:	FE=165	1.27E+02	1.31E+00	9.28E-01	7.33E-01	2
KI=1044.7:	FE=166	1.34E+02	3.96E+00	2.80E+00	2.09E+00	2
KI=1046.4:	FE=167	1.24E+02	4.99E-01	3.53E-01	2.83E-01	2
KI=1049.4:	FE=168	1.38E+02	5.30E+00	3.74E+00	2.71E+00	2
KI=1050.6:	FE=169	1.34E+02	5.45E+00	3.85E+00	2.88E+00	2
KI=1053.8:	FE=170	1.24E+02	2.72E-01	1.93E-01	1.56E-01	2
KI=1055.3:	FE=171	1.20E+02	5.06E+01	3.57E+01	2.98E+01	2
KI=1057.9:	FE=173	1.30E+02	1.27E-01	8.97E-02	6.90E-02	2
KI=1060.8:	FE=174	1.14E+02	1.17E+00	6.31E-01	7.29E-01	2
KI=1064.6:	FE=175	1.11E+02	5.51E-01	3.89E-01	3.52E-01	2
KI=1066.2:	FE=176	1.10E+02	1.36E+00	9.60E-01	8.70E-01	2
KI=1070.6:	FE=177	1.11E+02	1.19E+00	8.44E-01	7.63E-01	2
KI=1072.8:	FE=178	1.10E+02	1.35E-01	9.57E-02	8.67E-02	2
KI=1079.0:	FE=179	1.11E+02	8.05E-01	5.69E-01	5.14E-01	2
KI=1081.6:	FE=180	1.10E+02	8.55E-02	6.05E-02	5.48E-02	2
KI=1084.3:	FE=181	1.11E+02	1.24E+00	8.76E-01	7.88E-01	2

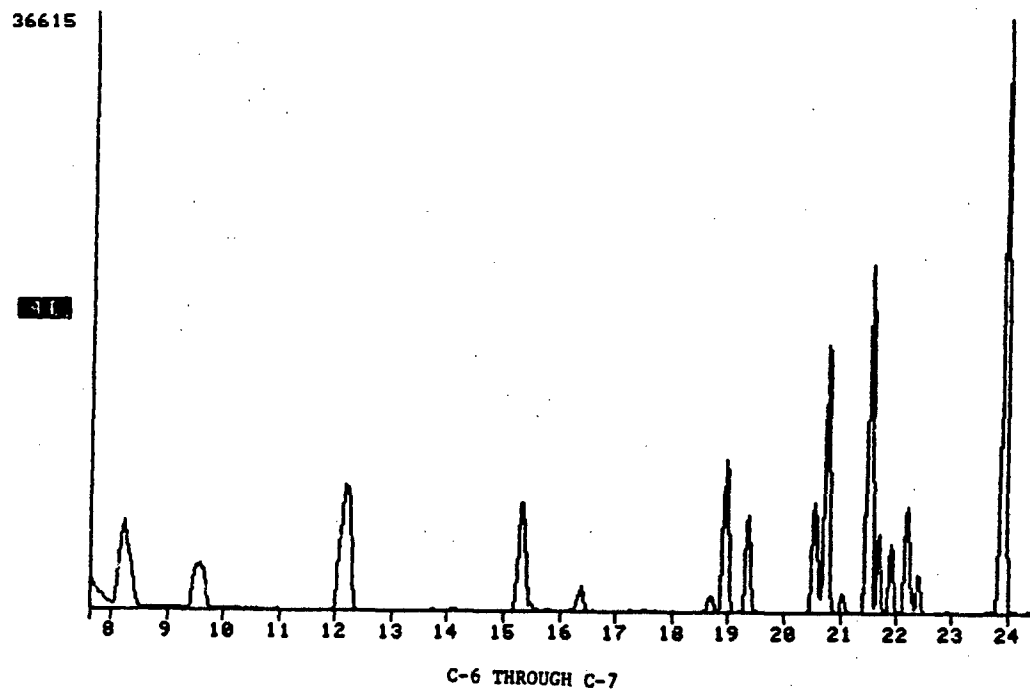
KI=1087.2:	FE=182	1.11E+02	2.52E+00	1.78E+00	1.61E+00	2
KI=1089.4:	FE=183	1.12E+02	2.76E+00	1.95E+00	1.74E+00	2
KI=1090.8:	FE=184	1.10E+02	2.53E+00	1.79E+00	1.62E+00	2
KI=1093.8:	FE=185	1.13E+02	6.15E-01	4.35E-01	3.85E-01	2
KI=1096.0:	FE=186	1.11E+02	1.51E-02	1.07E-02	9.66E-03	2
\$1100-n-C11-ANE:	FE=187	1.12E+02	8.67E-01	6.13E-01	5.50E-01	2
KI=1104.4:	FE=189	1.12E+02	7.07E-01	5.00E-01	4.45E-01	2
KI=1106.6:	FE=190	1.04E+02	1.34E+00	9.45E-01	9.06E-01	2
KI=1108.4:	FE=191	1.23E+02	1.41E+00	9.95E-01	8.09E-01	2
KI=1110.3:	FE=192	1.31E+02	3.18E+00	2.25E+00	1.71E+00	2
KI=1112.6:	FE=193	1.19E+02	1.90E+00	1.35E+00	1.14E+00	2
KI=1115.8:	FE=194	1.15E+02	1.11E+00	7.86E-01	6.84E-01	2
KI=1117.7:	FE=195	1.12E+02	3.35E+00	2.37E+00	2.11E+00	2
KI=1119.7:	FE=196	1.10E+02	1.05E+00	7.43E-01	6.75E-01	2
KI=1123.4:	FE=198	1.00E+02	2.43E+00	1.72E+00	1.72E+00	2
KI=1127.0:	FE=199	1.05E+02	1.31E+00	9.28E-01	8.83E-01	2
KI=1129.4:	FE=200	9.98E+01	9.62E-01	6.80E-01	6.82E-01	2
KI=1132.7:	FE=201	3.38E+01	8.19E+00	5.79E+00	1.71E+01	2
KI=1135.0:	FE=203	5.93E+01	2.49E-01	1.76E-01	2.96E-01	2
KI=1137.1:	FE=204	6.15E+01	1.48E+00	1.05E+00	1.70E+00	2
KI=1139.7:	FE=205	1.01E+02	3.63E+00	2.56E+00	2.54E+00	2
KI=1141.0:	FE=206	1.01E+02	1.55E+00	1.10E+00	1.08E+00	2
KI=1144.0:	FE=207	1.05E+02	1.13E+00	8.03E-01	7.64E-01	2
KI=1148.3:	FE=208	1.06E+02	7.20E-01	5.09E-01	4.79E-01	2
KI=1149.8:	FE=209	1.06E+02	1.95E-01	1.38E-01	1.31E-01	2
KI=1152.6:	FE=210	1.08E+02	1.27E+00	8.97E-01	8.29E-01	2
KI=1155.0:	FE=211	1.11E+02	2.57E+00	1.82E+00	1.64E+00	2
KI=1156.1:	FE=212	1.06E+02	8.02E-01	5.67E-01	5.37E-01	2
KI=1158.0:	FE=213	1.07E+02	1.16E+01	8.21E+00	7.69E+00	2
KI=1159.8:	FE=214	1.09E+02	2.11E+00	1.49E+00	1.37E+00	2
KI=1161.8:	FE=215	1.09E+02	1.01E+01	7.14E+00	6.53E+00	2
KI=1164.2:	FE=216	1.09E+02	3.58E+00	2.53E+00	2.32E+00	2
KI=1170.4:	FE=217	1.35E+02	6.32E+01	4.47E+01	3.32E+01	2
KI=1171.4:	FE=218	1.08E+02				1
KI=1175.9:	FE=219	1.07E+02	7.93E+01	5.61E+01	5.24E+01	2
KI=1179.7:	FE=220	1.12E+02	2.82E+01	2.00E+01	1.79E+01	2
KI=1181.4:	FE=221	1.10E+02	1.42E+01	1.01E+01	9.16E+00	2
KI=1185.3:	FE=222	1.11E+02	1.25E+01	8.84E+00	7.98E+00	2
KI=1189.6:	FE=223	1.10E+02	1.23E+01	8.71E+00	7.95E+00	2
KI=1191.5:	FE=224	1.10E+02	6.89E+00	4.87E+00	4.42E+00	2
KI=1193.9:	FE=225	1.22E+02	6.54E+00	4.62E+00	3.79E+00	2
\$1200-n-C12-ANE:	FE=227	1.10E+02	1.14E-01	8.06E-02	7.32E-02	2
KI=1203.4:	FE=228	1.27E+02	3.33E+01	2.35E+01	1.85E+01	2
KI=1205.6:	FE=229	1.35E+02	9.48E+01	6.70E+01	4.96E+01	2
KI=1210.9:	FE=231	1.25E+02	5.52E+01	3.90E+01	3.12E+01	2
KI=1214.2:	FE=232	1.12E+02	1.08E+01	7.64E+00	6.80E+00	2
KI=1218.2:	FE=233	1.70E+02	1.79E+02	1.26E+02	7.43E+01	2
KI=1221.7:	FE=235	1.27E+02	9.40E+01	6.65E+01	5.24E+01	2
KI=1224.3:	FE=236	1.16E+02	2.51E+01	1.77E+01	1.53E+01	2
KI=1227.8:	FE=237	1.10E+02	4.50E+00	3.18E+00	2.89E+00	2
KI=1233.9:	FE=238	1.15E+02	7.72E-01	5.46E-01	4.73E-01	2
KI=1238.6:	FE=239	1.15E+02	5.91E-02	4.18E-02	3.63E-02	2
KI=1241.7:	FE=240	1.13E+02	1.21E+00	8.59E-01	7.62E-01	2
KI=1245.4:	FE=241	1.13E+02	1.01E-01	7.16E-02	6.32E-02	2
KI=1248.5:	FE=242	1.15E+02	1.70E-02	1.20E-02	1.05E-02	2
KI=1252.8:	FE=243	1.11E+02	3.06E-01	2.17E-01	1.95E-01	2
KI=1254.8:	FE=244	1.11E+02	1.29E+00	9.10E-01	8.23E-01	2
KI=1259.3:	FE=245	1.10E+02	4.17E-01	2.95E-01	2.68E-01	2
KI=1264.0:	FE=246	1.10E+02	5.23E-01	3.70E-01	3.37E-01	2
KI=1267.6:	FE=247	1.14E+02	1.20E+00	8.52E-01	7.50E-01	2
KI=1270.2:	FE=248	1.10E+02	5.72E-01	4.04E-01	3.67E-01	2

KI=1273.1:	FE=249	1.10E+02	1.78E-01	1.26E-01	1.15E-01	2
KI=1282.7:	FE=253	1.07E+02	3.84E-01	2.71E-01	2.54E-01	2
KI=1285.6:	FE=254	1.04E+02	3.05E-02	2.16E-02	2.08E-02	2
KI=1288.3:	FE=255	6.27E+01				1
KI=1294.2:	FE=256	1.04E+02	4.81E+00	3.40E+00	3.28E+00	2
\$1300-n-C13-ANE:	FE=257	1.09E+02	1.06E-01	7.46E-02	6.83E-02	2
KI=1309.6:	FE=259	1.05E+02	3.63E+00	2.56E+00	2.45E+00	2
KI=1311.5:	FE=260	8.06E+01	1.47E+00	1.04E+00	1.29E+00	2
KI=1318.0:	FE=262	7.10E+01	3.85E+01	2.72E+01	3.84E+01	2
KI=1323.1:	FE=263	9.02E+01	3.38E+01	2.39E+01	2.65E+01	2
KI=1328.0:	FE=264	1.50E+02	4.15E+00	2.94E+00	1.95E+00	2
KI=1333.4:	FE=265	1.14E+02	3.45E+01	2.44E+01	2.15E+01	2
KI=1338.4:	FE=266	1.11E+02	7.65E+01	5.41E+01	4.87E+01	2
KI=1342.2:	FE=267	1.16E+02	5.46E+01	3.86E+01	3.32E+01	2
KI=1344.5:	FE=268	1.04E+02				1
KI=1347.5:	FE=269	1.27E+02	3.92E+00	2.77E+00	2.19E+00	2
KI=1351.1:	FE=270	1.16E+02	5.94E-01	4.20E-01	3.63E-01	2
KI=1354.0:	FE=271	1.11E+02	1.01E+03	7.11E-01	6.42E-01	2
KI=1358.9:	FE=272	1.08E+02	6.82E+00	4.82E+00	4.45E+00	2
KI=1364.0:	FE=273	1.19E+02	1.74E+01	1.23E+01	1.03E+01	2
KI=1370.3:	FE=274	1.10E+02	1.07E+01	7.55E+00	6.87E+00	2
KI=1376.7:	FE=275	1.07E+02	2.79E-02	1.97E-02	1.84E-02	2
KI=1383.0:	FE=276	1.02E+02	8.97E-01	6.34E-01	6.23E-01	2
KI=1388.6:	FE=277	1.11E+02	2.42E-01	1.71E-01	1.54E-01	2
KI=1393.4:	FE=278	1.10E+02	7.08E+00	5.01E+00	4.54E+00	2
\$1400-n-C14-ANE:	FE=279	1.09E+02	4.17E+00	2.95E+00	2.71E+00	2
KI=1404.0:	FE=280	1.09E+02	7.74E+00	5.47E+00	5.02E+00	2
KI=1407.9:	FE=281	1.12E+02	1.60E-01	1.13E-01	1.00E-01	2
KI=1411.1:	FE=282	1.21E+02	2.87E+00	2.03E+00	1.67E+00	2
KI=1413.6:	FE=283	1.88E+02	3.17E+00	2.24E+00	1.20E+00	2
KI=1422.0:	FE=285	1.10E+02				1
KI=1427.2:	FE=286	1.12E+02	5.72E+01	4.05E+01	3.62E+01	2
KI=1430.3:	FE=287	1.03E+02	8.21E+00	5.81E+00	5.65E+00	2
KI=1434.1:	FE=288	1.07E+02	1.82E+00	1.29E+00	1.21E+00	2
KI=1443.2:	FE=289	1.03E+02	6.23E+00	4.40E+00	4.29E+00	2
KI=1446.1:	FE=290	1.03E+02				1
KI=1450.5:	FE=291	6.98E+01				1
KI=1453.4:	FE=292	1.17E+02	2.06E+01	1.46E+01	1.25E+01	2
KI=1458.7:	FE=293	1.18E+02	2.41E+00	1.70E+00	1.44E+00	2
KI=1462.7:	FE=294	1.10E+02	7.50E-01	5.30E-01	4.80E-01	2
KI=1470.7:	FE=295	1.06E+02	2.61E+00	1.85E+00	1.74E+00	2
\$1500-n-C15-ANE:	FE=296	1.08E+02	1.11E-01	7.87E-02	7.28E-02	2
\$1600-n-C16-ANE:	FE=297	1.08E+02	1.56E-01	1.10E-01	1.02E-01	2
\$ANTH-d10(IS) (KI=1772)		1.00E+01	1.91E-06	1.91E-06	1.91E-05	2
\$2118-(IMPURITY #3)		9.75E+01	3.32E+00	2.35E+00	2.41E+00	2
TOTAL CONCENTRATION		3.04E+04	1.37E+02	9.70E+01	3.19E-01	2

GC/MS CHROMATOGRAM OF FUEL # 607

HOME 1 UL 200/200 D10 (1 MG/ML) + 607 (DIL 1:10)  
MICE SEE LOGBOOK BTLS Q17742 D17742

17742

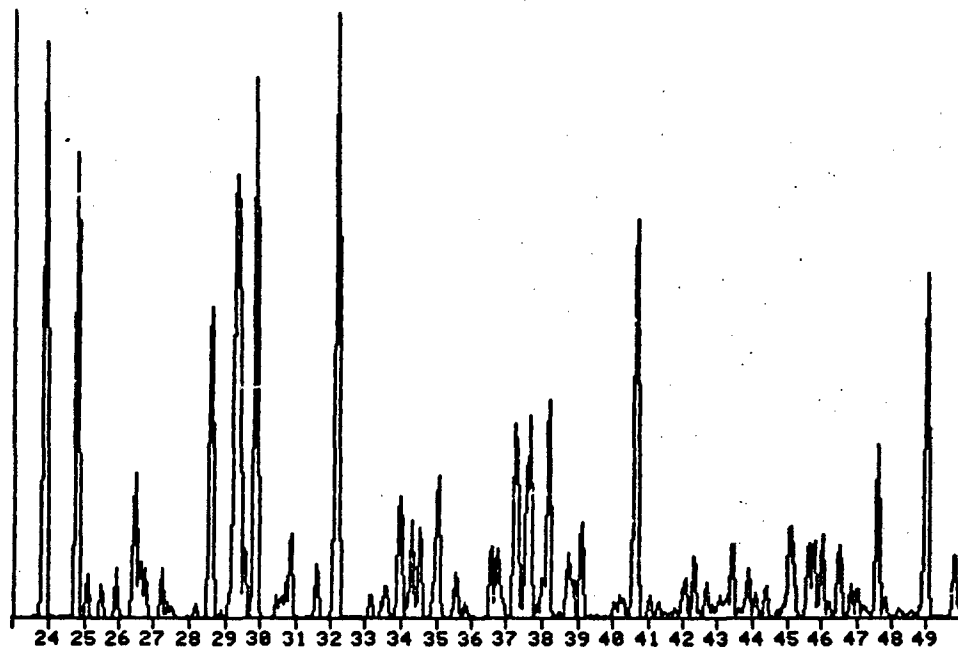


NAME 1 UL 200/200 D10(1 MC/ML) + 607(DIL 1:10)  
MISC SEE LOGBOOK BTL=6 Q17742 D17742

FIN 17742

38444

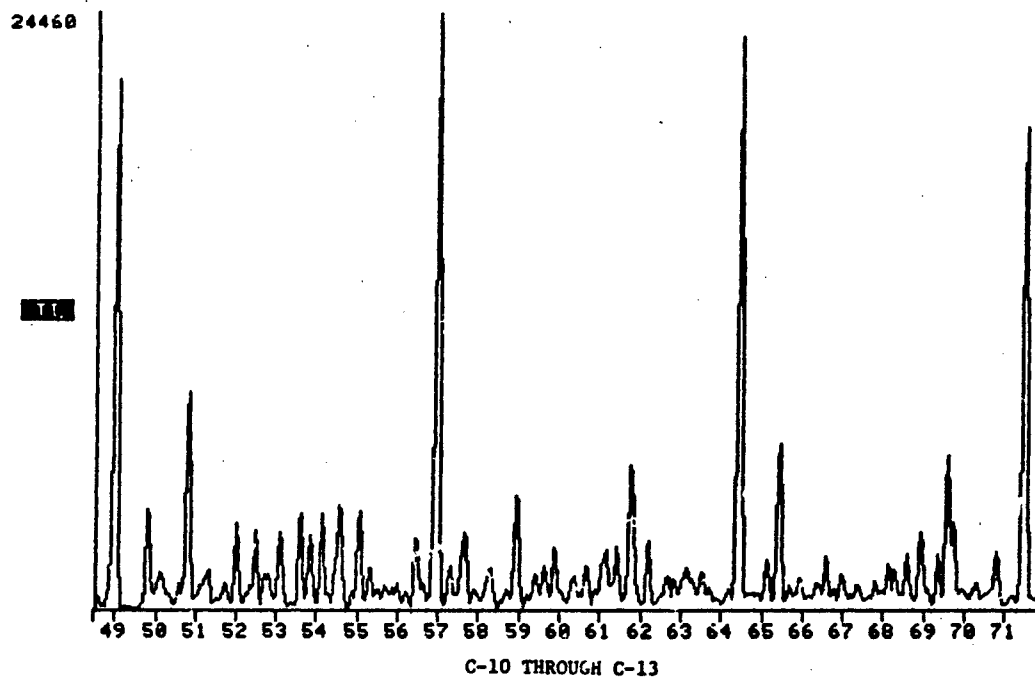
TI



C-7 THROUGH C-10

NAME 1 UL 200/200 D10(1 MC/ML) + 607(DIL 1:10)  
MISC SEE LOGBOOK BTL&C Q17742 D17742

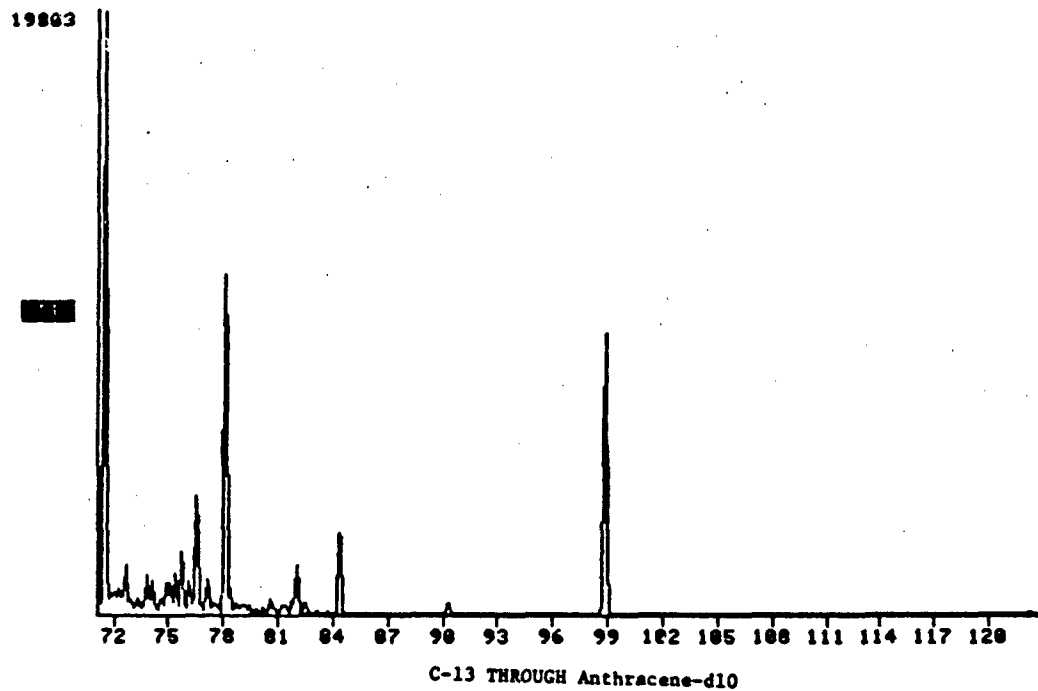
REF 17742





NAME 1 UL 200/200 D19(1 MC/ML) + 607(DIL 1:10)  
SEE LOGBOOK BTL#5 Q17742 D17742

17742



RELATIVE AMOUNTS OF FEATURES FROM GC/MS DATA IN FUEL # 607

## \*\*\* QUANTIFICATION REPORT \*\*\*

DIST. FUELS MASTER METHOD  
PREPARED 9/2/83 KMSIMON

DATA FILE: 17742  
STANDARDS FILE: 7000  
CALIBRATIONS FILE: 8001

I.D. NO.	COMPOUND NAME	CONC'N X REL.
1	KI= 566.2, F=012( 43, 71)	104.446 //2
2	KI= 577.5, F=013( 57, 41)	94.894 //2
3	\$600-n-C6-ANE, F=014( 57, 41)	89.344 //2
4	KI= 626.9, F=018( 56, 41)	91.228 //2
5	KI= 657.8, F=022( 84, 41)	95.935 //2
6	KI= 661.1, F=023( 78, 77)	96.006 //3
7	KI= 671.3, F=024( 56, 41)	97.309 //3
8	KI= 673.1, F=025( 43, 85)	100.465 //1
9	KI= 679.6, F=026( 43, 70)	96.299 //2
10	KI= 681.0, F=027( 70, 41)	91.978 //2
11	KI= 682.8, F=028( 70, 55)	96.368 //2
12	KI= 685.2, F=029( 70, 56)	91.505 //2
13	\$700-n-C7-ANE, F=031( 43, 100)	100.228 //2
14	KI= 710.9, F=036( 83, 98)	91.855 //2
15	KI= 714.4, F=037( 55, 97)	108 <del>844</del> //2
16	KI= 724.4, F=039( 69, 41)	97.483 //2
17	KI= 730.9, F=040+041( 57, 43)	98.249 //1
18	KI= 732.6, F=042( 70, 55)	101.802 //2
19	KI= 734.1, F=043( 43, 71)	89.326 //2
20	KI= 739.8, F=044( 70, 55)	103.397 //2
21	KI= 756.7, F=049( 70, 43)	93.657 //1
22	KI= 757.2, F=050( 91, 92)	101.466 //1
23	KI= 765.8, F=052+053( 57, 99)	96.214 //1
24	KI= 766.7, F=054( 97, 112)	97.922 //1
25	KI= 768.6, F=055( 97, 55)	111.174 //1
26	KI= 772.1, F=056( 43, 57)	96.690 //1
27	KI= 784.0, F=062( 97, 55)	96.609 //3
28	KI= 792.8, F= ( 97, 55)	99.759
29	\$800-n-C8-ANE, F=066( 43, 85)	97.156 //1
30	KI= 820.8, F=075( 83, 55)	96.836 //3
31	KI= 824.7, F=076( 69, 111)	81.4 <del>844</del> //3
32	KI= 827.5, F=078( 43, 57)	97.794 //1
33	KI= 833.4, F=079( 57, 41)	97.365 //1
34	KI= 839.6, F=082( 69, 111)	101.539 //1
35	KI= 851.3, F=088( 91, 106)	97.972 //1
36	KI= 853.5, F=089( 43, 84)	99.383 //0
37	KI= 859.5, F=091( 91, 106)	100.101 //1
38	KI= 863.2, F=092+093 ( 43, 85)	111.154 //3
39	DUPLICATE OF UNRESOLVED 092+093	448.539

## \*\*\* QUANTIFICATION REPORT \*\*\*

DIST. FUELS MASTER METHOD  
PREPARED 9/2/83 KMSIMON

DATA FILE: 17742  
STANDARDS FILE: 7000  
CALIBRATIONS FILE: 8001

I.D. NO.	COMPOUND NAME	CONC'N X REL.
40	KI= 870.5; F=096( 57, 41)	93.449 109
41	KI= 877.1; F=099( 97, 55)	103.130 110
42	KI= 881.5; F=102( 91, 106)	100.624 112
43	\$900-n-C9-ANE; F=109( 57, 41)	99.522 111
44	KI= 916.7; ( 43, 85)	94.801
45	KI= 919.7; ( 83, 82)	96.323
46	KI= 932.9; F=122( 57, 71)	103.210 118
47	KI= 938.3; F=123( 57, 98)	94.001 132
48	KI= 953.1; F=129+130(105, 120)	96.743 108
49	KI= 959.4; (105, 120)	96.431
50	KI= 961.5; F=132( 57, 43)	94.817 109
51	KI= 964.3; F=133( 57, 43)	95.375 108
52	KI= 969.4; (105, 120)	98.362
53	KI= 970.3; ( 57, 71)	100.912
54	KI= 993.1; F=144(105, 120)	97.063 111
55	\$1000-n-C10-ANE; F=149( 57, 43)	91.620 111
56	KI=1009.8; F=152(105, 120)	100.394 110
57	KI=1022.4; F=156+157( 71, 57)	95.817 110
58	KI=1037.3; ( 57, 71)	101.580
59	KI=1037.3; ( 67, 41)	102.149
60	KI=1043.4; F=167(105, 77)	99.356 124
61	KI=1051.0; F=170(119, 134)	96.935 124
62	KI=1056.1; (105, 134)	101.619
63	KI=1057.6; ( 57, 43)	94.256
64	KI=1060.5; F=174( 71, 57)	98.283 114
65	KI=1064.1; F=175( 57, 71)	100.315 111
66	KI=1067.8; F=178(119, 134)	98.700 110
67	KI=1069.5; F=177( 57, 71)	102.968 111
68	KI=1075.6; F=179(119, 134)	98.605 111
69	KI=1093.2; F=186( 81, 67)	107.933 111
70	\$1100-n-C11-ANE; F=187( 57, 71)	92.986 112
71	KI=1107.8; (119, 134)	93.072
72	KI=1108.8; ( 81, 67)	107.196
73	KI=1124.6; ( 83, 82)	106.464
74	KI=1226.2; ( 57, 71)	106.429
75	KI=1162.4; F=216( 57, 43)	93.556 109
76	KI=1163.7; F=217(128, 81)	99.682 135
77	KI=1169.7; ( 57, 41)	111.050
78	\$1200-n-C12-ANE; F=227( 57, 43)	97.631 110
79	KI=1213.8; F=232( 57, 71)	96.180 112

## \*\*\* QUANTIFICATION REPORT \*\*\*

DIST. FUELS MASTER METHOD  
PREPARED 9/2/83 KMSIMOM

DATA FILE: 17742  
STANDARDS FILE: 7000  
CALIBRATIONS FILE: 8001

I.D. NO.	COMPOUND NAME	CONC'N % REL.
80	KI=1263.6; ( 57, 43)	97.097
81	KI=1272.7; ( 57, 113)	89.0 -000
82	KI=1274.9; (141, 142)	99.987
83	*1300-n-C13-ANE; F=257( 57, 71)	97.821 109
84	KI=1376.3; F=275( 57, 71)	103.018 107
85	*1400-n-C14-ANE; F=279( 57, 43)	96.071 109
86	*1500-n-C15-ANE; F=296( 57, 43)	94.471 108